VOLUME 2 - APPENDICIES

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TABLE A-1

GLOSSARY*

Ablation Till	Loosely consolidated rock debris, formerly in or on a glacier.
Alluvium	A general term for all detrital material deposited permanently or in transit by streams. It includes gravel, sand, silt, and clay, and all variations and mixtures of these.
Aqueoglacial	Resulting from or pertaining to the combined action of ice and water; as, many glacial deposits.
Aquiclude	A formation that, although porous and capable of absorbing water slowly, will not transmit water fast enough to furnish an appreciable supply for a well or spring.
Aquifer	A geologic formation or structure that transmits water in sufficient quantity to supply pumping wells or springs.
Artesian	Pertaining to underground water that is confined by impervious material under pressure sufficient to raise it above the upper level of the saturated material in which it lies if this is penetrated by wells or natural fissures.
Basal Till	A firm clay-rich till containing many abraded stones dragged along beneath a moving glacier and deposited upon bedrock or other glacial deposits.
Bed	Any tabular body of rock lying in a position essentially parallel to the surface or surfaces on or against which it was formed, whether these be a surface of weathering and erosion, plans of stratification, or inclined fractures.
Bedding	The arrangement of rock in layers, strata, or beds.
Bedrock	The more or less solid, undisturbed rock in place either at the surface or beneath superficial deposits of gravel, sand, or soil.
Bentonite	A rock composed of any of the montmorillonite-beidellite group of clay minerals.
Boulder	A large detached rock fragment, somewhat rounded or otherwise modified in shape by transport. A boulder is larger than a cobble, 10 inches (256 mm) having been suggested as a convenient lower limit for the diameter.

Calcareous	Consisting of or containing calcium carbonate.
Clastic**	Rock or sediment comprised of fragments broken from their place of origin.
Clay	A fine-grained aggregate consisting wholly or dominantly of microscopic and submicroscopic mineral particles, derived from the chemical decomposition of rocks, which is plastic when wet and hard when dry. The distinctive physical properties are due to the presence of clay minerals, which are hydrous aluminum silicates that break down into colloidal, exceedingly minute shreds or flaky particles.
Cobble	A rock fragment between 64 and 256 mm diameter, thus larger than a pebble and smaller than a boulder, rounded or otherwise abraided in the course of transport by water, wind, or ice.
Cross-Section	A geologic diagram or actual field exposure showing the geologic formations and structures transected by a given plane.
Dip	The angle at which a stratum or any planar feature is inclined from the horizontal.
Dolomite	A common rock-forming rhombohedral mineral, $CaMg(CO_3)_2$.
Effective Porosity	The portion of pore space in saturated permeable material in which movement of water takes place.
End Moraine	A ridgelike accumulation of drift built chiefly along the terminal margin of a valley glacier or the margin of an ice sheet. It has a surface form of its own and is the result chiefly of deposition by ice, deformation by ice thrust, or both.
Facies***	Lithologic and biologic characteristics of a sedimentary deposit imparted by the depositional environment.
Glaciation	The geologic work accomplished by ice, including erosion and deposition and the resulting effects of these processes on the surface.
Glacier	A body of ice consisting of recrystallized snow, lying wholly or largely on land, and showing evidence of present or former flow.
Glaciofluvial	Pertaining to the meltwater streams flowing from wasting glacier ice and especially to the deposits and land forms produced by such streams.

Transmissivity	Rate at which water is transmitted through a unit thickness of an aquifer under a unit hydraulic gradient.
Water Table	A water table is the upper surface of a zone of saturation except where that surface is formed by an impermeable body.
Well Log	A systematic and sequential record of geologic data obtained from a well.

Sources:

* Stokes, W.L. and D.J. Varnes, 1955.
** Bates, Robert L. and Julia A. Jackson. Eds. 1980. Glossary of Geology - 2nd Edition. American Geological Institute, Falls Church, VA.
***Friedman, Gerald M. and John E. Sanders. 1978. Principles of Sedimentology. John Wiley and Sons, Inc., New York.

TABLE A-2

LIST OF ABBREVIATIONS AND ACRONYMS

AF	Air Force
AFB	Air Force Base
AFFF	Aqueous Film Forming Foam
ALS	Above Land Surface
ATV	All Terrain Vehicle
BLS	Below Land Surface
Br	Bromine
CB	Chlorobromoethane
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
Cl	Chlorine
cm/sec	centimeter per second
DOD	Department of Defense
EDM	Electronic Distance Meter
ft/day	feet per day
ft/sec	feet per second
gal/min	gallons per minute
HARM	Hazard Assessment Rating Methodology
I	Iodine
ID	Inside Diameter
IRP	Installation Restoration Program
NORAD	North American Aerospace Defense Command
NYANG	New York Air National Guard
OD	Outside Diameter
pH	The negative logarithm of the effective hydrogen-ion concentration

Gravel	Loose or unconsolidated coarse granular material, larger than sand grains, resulting from erosion of rock by natural agencies.
Ground Water	Subsurface water in a zone of saturation; phreatic water.
Gypsum	A hydrous calcium sulfate mineral, $CaSO_4 \cdot 2H_2O$.
Hazardous Waste	A solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause or significantly contribute to an increase in mortality or an increase in serious, irreversible, or incapacitating reversible illness; or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.
Hydraulic Conductivity	The capacity of a rock or soil for transmitting water under pressure.
Lacustrine	Pertaining to, produced by, or formed in a lake or lakes.
Lithology	The study of stones or rocks.
Lodgement Till	A basal till commonly characterized by compact fissile structure and containing stones oriented with their long axes parallel to the direction of ice movement.
Moraine	An accumulation of drift with an initial topographic expression of its own, built within a glaciated region chiefly by the direct action of glacier ice.
Outwash	Detrital material removed from a glacier by meltwater and laid down by streams beyond the glacier itself.
Paleofluvial	Pertaining to an ancient river or rivers.
Periglacial	Processes, conditions, areas, climates and topographic features at the immediate margins of former and existing glaciers and ice sheets.
Permeability	The property or state of being permeable, of allowing fluids and gases to pass through.
Piezometric Surface	An imaginary surface that everywhere coincides with the static level of the water in the aquifer.
Porosity	The property of a rock of containing interstices without regard to size, shape, interconnection, or arrangement of openings.

Shale	A general term for lithified muds, clays, and silts that are fissile and break along planes parallel to the original bedding.
Silt	Unconsolidated material finer than sand and coarser than clay.
Silt Loam	A type of soil having over half of the particles of the size called silt. The amount of material of sand or clay size is relatively small.
Solid Waste	Any garbage, refuse, or sludge from a waste treatment plant, water supply treatment, or air pollution control facility and other discarded material, including solid, liquid, semi-solid, or contained gaseous material resulting from industrial, commercial, mining, or agricultural operations and from community activities, but does not include solid or dissolved materials in domestic sewage; solid or dissolved materials in irrigation return flows; industrial discharges which are point source subject to permits under Section 402 of the Federal Water Pollution Control Act, as amended (86 USC 880); or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954 (68 USC 923).
Stratigraphy	The branch of geology that deals with the definition and interpretation of the stratified rocks, the conditions of sequence, age, distribution, and especially their correlation by the use of fossils and other means.
Strike	The direction or bearing of the outcrop of an inclined bed or structure on a level surface. It is perpendicular to the direction of the dip.
Swell-and-Swale	The type of topography characteristic of the ground moraine of a continental glacier.
Till	That part of a glacial drift deposited directly by ice, without transportation or sorting by water, consisting generally of an unstratified, unsorted, unconsolidated to moderately consolidated, heterogeneous mixture of clay, sand, gravel, and boulders.
Topographic Map	A topographic map is a representation on paper that is designed to portray certain selected features of a section of the earth's surface plotted on some form of projection and to a certain scale; that primarily depicts the relief of the country mapped by shows also its drainage and cultural features; and that delineates all features in true latitude and longitude and therefore all parts in a rigidly correct relative position.

TABLE A-2

LIST OF ABBREVIATIONS AND ACRONYMS (Continued)

ppm	parts per million (also equivalent to milligrams per liter, mg/l)
PVC	Polyvinyl Chloride
SAC	Strategic Air Command
SOW	Statement of Work
TAC	Tactical Air Command
TOC	Total Organic Carbon
TOX	Total Organic Halogens
USAF	United States Air Force
USAFOEHL	United States Air Force Occupational and Environmental Health Laboratory

TABLE A-3

UNITS OF MEASUREMENTS

S.I. UNITS	LENGTH	METRIC
inch (in)	x 2.54	= centimeter (cm)
foot (ft)	x 0.3048	= meter (m)
mile (mi)	x 1.608	= kilometer (km)
	VOLUME	
U.S. Gallon (gal)	x 3.785	= liter
U.S. Gallon (gal)	x 0.0038	= cubic meter (m^3)
cubic feet (ft)	x 0.0283	= cubic meter
acre-foot (ac. ft)	x 1233.48	= cubic meter
	AREA	
square inch (in^2)	x 6.452	= square centimeter (cm^2)
square foot (in^2)	x 0.09	= square meter (m^2)
acre (ac)	x 0.4047	= hectare (ha)
	MASS	
ounce (oz)	x 28	= gram (g)
ounce (oz)	x 28349.527	= milligram
ounce (oz)	x 28349.527	= microgram
pound (lb)	x 0.45	= kilogram (Kg)
short ton	x 0.9	= metric ton (t)
	DENSITY	
pounds per cubic foot (pcf)	x 0.016	= grams per cubic centimeter (g/cm^3)
	HYDRAULIC CONDUCTIVITY	
gallons per day per square foot (gpd/ft^2)	x 4.72×10^{-5}	= centimeters per second (cm/sec)
Darcy	x 8.58×10^{-4}	= centimeters per second
	TRANSMISSIVITY	
gallons per foot per day (gpd/ft)	x 0.012	= square meters per day (m^2/day)
square feet per day (ft^2/day)	x 0.093	= square meters per day (m^2/day)

APPENDIX B: STATEMENT OF WORK

INSTALLATION RESTORATION PROGRAM
CONFIRMATION/QUANTIFICATION (STAGE 2)
HANCOCK FLD NY

I. DESCRIPTION OF WORK

MOD 3 The overall objective of the Installation Restoration Program (IRP) is to assess potential contamination at past hazardous waste disposal and spill sites on Air Force installations. from hazardous materials at their disposal and spill sites.

The initial Phase II (Stage 1) survey performed at Hancock FLD grouped four potential sites into two zones. Individual sites were not evaluated.

The Stage 2 survey will investigate five individual sites - the Fire Training Area (FT-1), Disposal Site D-5, the Entomology Underground Storage Tank (S-3), Transformer Storage Area (S-1)), and the Old Spill Area (SP-1). Three of these sites (S-3, S-1, and SP-1) are new. A zone approach will still be taken for Disposal Sites D-1 and D-3 (adjacent landfills); however, additional monitoring wells will be installed to characterize the groundwater hydrology and identify any contaminants migrating from the zone. The program schedule for this investigative survey is shown in Appendix 5.

The purposes of this Stage 2 follow-on field and laboratory study at Hancock FLD are to (1) confirm the presence or absence of contamination within the specified areas of investigation, (2) if possible, determine the extent, degree of contamination, and the potential for migration of those contaminants in the environment, (3) identify public health and environmental hazards of stationary or migration of ~~migrating~~ pollutants based on state or federal standards for those contaminants, and (4) delineate additional investigations required beyond this stage to reach the

MOD 3 objectives of the IRP. Volume 2 contains Appendices A through M. Data tables, field notes, correspondence etc. are included.

The IRP Phase I Report incorporates the background and description of the sites/zones at Hancock FLD. The Phase II Stage 1 Report describes the field work and summarizes the analytical results of sampling activities during the initial investigative study. Both of these reports (to be mailed under separate cover) should be thoroughly reviewed by the contractor prior to the start of work to obtain an understanding of all previous findings and recommendations which impact the current task. To accomplish this survey effort, the contractor shall take the following actions:

A. General Requirements

1. Conduct a literature search of local hydrogeological conditions to complement the Phase I and Phase II Reports. Use these data along with field investigation data, to determine optimum well depth and locations. Include the pertinent literature search information in an appendix to the Final Report. Develop the literature search data using the following guidelines:

a. Topographic data

b. Geologic data

(1) Structure

(2) Stratigraphy

(3) Lithology

c. Hydrogeologic data

(1) Location of all existing and abandoned wells, observation wells, springs, ponds (natural and artificial) and seepages that occur on or off the installation within a one-mile radius of the sites to be investigated.

(2) Groundwater table and piezometric contours

(3) Depth to groundwater

(4) Surface and groundwater quality

(5) Delineated areas of recharge, discharge and contributing areas

(6) Geologic setting, yield data, and hydrographs of springs and natural seepages

d. Data on all existing and abandoned wells, including uncased boreholes, on or off the installation within a one-mile radius of the sites to be investigated.

(1) Location, depth, diameter, well type, and lithologic logs associated with the well

(2) Static and pumping water levels, well hydrographs, yield, specific capacity, and related data

(3) Existing and projected groundwater development and use.

(4) Well and screen corrosion, encrustation, and similar operation and maintenance problems

(5) Observation and monitoring well networks, pumping influences, barrier and recharge boundaries, and related hydraulic interferences influencing aquifer behavior.

(6) Existing water sampling sites

e. Aquifer data

(1) Type, i.e. unconfined, artesian, or perched

(2) Thickness, depth to aquifer, and formational designation

(3) Barrier and recharge boundaries

(4) Transmissivity, storativity, and permeability (gpd/ft^2)

(5) Specific retention

(6) Delineation of discharge and recharge areas

(7) Ground and surface water relationships

(8) Aquifer models

f. Climatic data

(1) Precipitation (total and net)

(2) Evapotranspiration

2. Determine the areal extent of the sites by reviewing historical and current panchromatic and infrared aerial photography.

B. Technical Operations Plan

Immediately after the Notice To Proceed (NTP) for the delivery order, develop a Technical Operations Plan (TOP) based on the technical requirements specified in this task description (see Sequence No. 19, Item VI below). Follow the TOP format (mailed under separate cover). This plan shall be explicit with regard to field and laboratory procedures. Include, but do not limit the plan to well purging procedures, field decontamination operations, sampling protocol, QA/QC for field and laboratory procedures, field schedule, etc. Provide the TOP to the USAFOEHL within two weeks of the NTP.

C. Health and Safety

Comply with USAF, OSHA, EPA, state and local health and safety regulations regarding the proposed work effort. Use EPA guidelines for designating the appropriate levels of protection needed at the study sites. Prepare a written Health and Safety Plan for the proposed work effort and coordinate it directly with applicable regulatory agencies prior to commencing field operations. Provide an information copy of the Health and Safety Plan to the USAFOEHL after coordination with regulatory agencies. The Health and Safety Plan is specified in Sequence No. 7, Item VI below.

D. Drilling and Soils Work

1. Determine the exact location of all monitoring wells, soil borings, and test pits during the planning/mobilization phase of the field investigation. Consult with base personnel to minimize disruption of base activities, to properly position wells with respect to exact site

locations, and to avoid underground utilities. Direct the drilling and sampling and maintain a detailed log of the conditions and materials penetrated during the course of the work. Do not drill boreholes into or position wells in actual landfill areas; rather install wells at the landfill perimeter.

2. Monitor the ambient air during all well drilling, soil boring and test pit work with a photoionization meter or equivalent organic vapor detector to identify the generation of potentially hazardous and/or toxic vapors or gases. Include air monitoring results in the boring logs. If soil encountered during borehole drilling or test pit work is suspected to be hazardous because of abnormal discoloration, odor or air monitoring levels, containerize the soil cuttings in new, unused drums. Enter into the boring logs the depths(s) from which suspected contaminated soil cuttings were collected for containerization. Collect a maximum of 20 composite samples, one from the contents of each drum. Test each composite sample for EP Toxicity (metals). Use Resource Conservation and Recovery Act (RCRA) criteria to determine if soil cuttings must be classified as hazardous waste (40 CFR 261.24).

3. Groundwater Monitoring Wells

a. Installation of Groundwater Monitoring Wells

(1) Comply with U.S. EPA Publication 330/9-S1-002, NEIC Manual for Groundwater/Subsurface Investigations at Hazardous Waste Sites for monitoring well installation.

(2) All well drilling, development, purging, sampling methods, and other activities pertaining to this effort must conform to state and other applicable regulatory agency requirements. Cite references in an appendix to the Final Report (Sequence No. 4, Item VI).

(3) Install wells at a sufficient depth to collect samples representative of aquifer quality and to intercept contaminants if they are present.

(4) Avoid, when possible, installing wells in depressions or areas subject to frequent flooding and standing water. If wells must be installed in such areas, design the wells such that standing water does not leak into the top of the casing or cascade down the annular space.

(5) Drill all monitoring wells using the following specifications:

(a) Drill wells that are less than 150 feet deep using hollow-stem auger techniques. A center stem, plug, and bit attached to the stem may be inserted into the auger for use while drilling. This will prevent material from entering into the hollow stem of the auger. Drill
MOD 2 all wells that are equal to or more than 150 feet deep using an air hammer - drive casing technique. If drilling fluid additives such as bentonite or polymers are used, insure that the components from each batch/lot used will not interfere with the laboratory analyses to be performed on samples. Analyze the additive from each batch/lot used for the parameters listed in

Appendix 2. Biodegradable organic drilling fluid additives are not permitted.

(b) Take lithologic samples at five-foot intervals and prepare borehole log descriptions. Include pilot boring logs and well completion summaries in the Final Report (Sequence No. 4, Item VI, below).

MOD 4 (c) Drill a maximum of 19 wells - 9 deep wells and 10
MOD 2 shallow wells. The maximum depth of each deep well shall not exceed 194
MOD 2 linear feet. The maximum depth of each shallow well shall not exceed 50
MOD 2 linear feet. Total footage for all wells in this task shall not exceed
MOD 4 2246 linear feet. Refer to the site specific details in Section I.H.

(d) Construct each shallow well with two-inch inside
MOD 2 diameter (i.d.) Schedule 80 PVC casing. Construct each deep well, except
the deep well between landfills D-1 and D-3, with four-inch i.d. Schedule 80 PVC casing. Construct the deep well between landfills D-1 and D-3 with two-inch i.d. Schedule 80 PVC casing. Use threaded screw-type joints only. Glued fittings are not permitted. Flush-thread all connections.

(e) Screen each shallow well using two-inch i.d. 304 stainless steel casing having up to 0.020 inch slots. Screen each deep well using four-inch i.d. 304 stainless steel casing having up to 0.020
MOD 2 inch slots. The deep well between landfills D-1 and D-3 shall be screened
in the same manner as the shallow wells. Slot size may be smaller based upon borehole geology. Each well screen shall be a maximum of twenty feet
MOD 3 in length. Total screening for all wells in this task shall not exceed 500
linear feet. Cap the bottom of the screen.

(f) Prevent cross-contamination between aquifers by using a dual casing system. Where wells extend through the most shallow aquifer and into a deeper aquifer, install an outer conductor casing into the confining layer below the shallow aquifer. Grout the annular space to the surface with bentonite.

(6) Complete all monitoring wells using the following specifications:

MOD 2 [DELETE PARA AND RENUMBER]

MOD 2 (a) Once the casing is installed, allow the soil formation to collapse around the well screen. Supplement the natural gravel pack with washed and bagged rounded silica sand or gravel with a grain size distribution compatible with the screen and soil formation. Place the pack from the bottom of the borehole to two feet above the top of the screen. Tremie a five foot bentonite seal (granulated or pellets) above the sand/gravel pack. Ensure that the bentonite forms a complete seal. Grout the remainder of the annulus to the land surface with a Type I Portland cement/bentonite slurry.

MOD 2 (b) Check with the Base point of contact (POC) to determine whether wells shall be completed flush or projected above the ground surface.

1 If well stick-up is of concern in an area, complete the well flush with the land surface. Cut the casing two to three inches below land surface, and install a protective locking lid consisting of a cast-iron valve box assembly. Center the lid assembly in a three foot diameter concrete pad sloped away from the valve box. Ensure that free drainage is maintained within the valve box. Also, provide a screw-type casing cap to prevent infiltration of surface water. Maintain a minimum of one foot clearance between the casing top and the bottom of the valve box. Clearly mark the well number on the valve box lid.

2 If an above ground surface completion is used, extend the well casing two or three feet above land surface. Provide an end plug or casing cap for each well. Shield the extended casing with a steel guard pipe (sleeve) which is placed over the casing and cap, and seated in a two-foot by two-foot concrete surface pad. The concrete surface pad shall have a minimum thickness of four inches above ground level and be sloped away from the well sleeve. It shall extend to a sufficient depth below ground level (to the frostline) to resist cracking and breakage during the winter months. Install a lockable cap or lid on the guard pipe. Install three, four-inch diameter cement-filled metal barrier posts in the ground around each concrete surface pad. The barrier posts shall be five feet in total length, with two feet recessed into the ground and set in concrete. Do not install the barrier posts in the concrete pad placed at the well base. Paint the protective steel sleeve and clearly number the well on the sleeve exterior.

3 Provide locks for both flush and above-ground well assemblies. Turn over the lock keys to the Base POC following completion of the field effort.

MOD 2 (c) Develop each well as soon as practical after completion with a submersible pump, bailer, and/or airlift method. Continue well development until the discharge water is clear and free of sediment to the fullest extent possible. Measure the rate of water production, the pH, specific conductance and water temperature during well development and include this information in the Final Report (Sequence No. 4, Item VI).

MOD 2 (d) Determine by survey the elevation of all newly installed monitoring wells to an accuracy of 0.01 foot. Notch the top of the riser casing where well elevations are established. Horizontally locate the new wells to an accuracy of 1.0 foot and record the position on both project and site specific maps. Bench marks used must have previously been established from and be traceable to a USCGS or USGS survey marker.

MOD 2 (e) Measure water levels at all monitoring wells as feet below the ground surface or below the top of casing elevation to the nearest 0.01 foot. Report as mean sea level (MSL). Measure static water levels in wells prior to well development and before all well purging which precedes sampling events.

b. Recommend well abandonment method(s) or technique(s) which are applicable to the type of monitoring wells installed and the geological conditions. Consider that these wells will be abandoned at some future

date after the study objectives have been met and there is no longer a need for the wells. The actual process of well abandonment is only applicable if expressly called for in the site-specific work, Section I.H. Assure that the recommended method(s) meets state and/or local well abandonment guidelines or regulations.

MOD 2

c. Complete permits, applications, and other documents which may be required by local and/or state regulatory agencies for the installation of monitoring wells. File these documents with appropriate agencies and pay all permitting and filing fees.

4. Soil Borings

a. Perform a maximum of 6 shallow soil augerings using a hand or power auger. Each augering is to be one foot in depth. Total footage for all shallow soil augerings shall not exceed 6 feet. Collect one soil sample from each augering (maximum of 6 auger samples). Refer to Section I.H., for the site-specific details.

b. Conduct a maximum of 26 soil borings not to exceed a total of 390 linear feet. The maximum depth of each soil boring shall be 15 linear feet. Accomplish the borings using the hollow stem auger technique. Obtain split spoon samples at intervals of 0 to 5, 5 to 10, and 10 to 15 feet using ASTM Method D-1586, not to exceed 3 samples per boring. Borings may be accomplished using a hand or power auger when site conditions limit accessibility with the hollow stem auger drill rig. The appropriate boring method shall be determined in the field by the project manager in coordination with the USAFOEHL Technical Program Manager. The maximum number of boring samples to be collected is 78. Refer to Section I.H., for the site-specific details.

MOD 2

MOD 2

c. Scan all split-spoon soil cores with a photoionization meter or equivalent organic vapor detector. Include monitoring results in the boring logs.

d. During the boring operations, describe lithologies encountered and prepare stratigraphic logs. Place special emphasis on field identification of contaminated soils encountered.

e. Whenever possible, measure water levels in all boreholes after the water level has stabilized. Examine the water surface for the presence of hydrocarbons. Include this information in the boring logs.

f. Tremie-grout all boreholes to the surface with bentonite. It is especially important to insure that they be adequately resealed to preclude future migration of contaminants.

g. Permanently mark each location where soil borings are drilled. Record the location on a project map for each specific site or zone, whichever is applicable.

5. Well and Borehole Cleanup

Remove all well/borehole cuttings and clean the general area

following the completion of each well/borehole. Containerize and store cuttings suspected to be contaminated according to paragraph I.D.2. of this task order. Transport these drums to a location within the installation boundary designated by the Base POC. The base is responsible for ultimate disposal of contaminated soils using base resources.

E. Decontamination Procedures

1. Decontaminate all sampling equipment, including internal components, prior to use and between samples to avoid cross-contamination. Wash equipment with a laboratory-grade detergent followed by drinking quality water, solvent (methanol), and distilled water rinses. Allow sufficient time for the solvent to evaporate and the equipment to dry completely before reuse.

2. Dedicate for each well the monofilament line or steel wire used to lower sampling equipment into the well. Do not use a line or wire in more than one well. Decontaminate the calibrated water level probe for measuring well volume and water level elevation before use in each well.

3. Thoroughly clean and decontaminate the drilling rig and tools before initial use and after each borehole completion. As a minimum, steam clean drill bits after each borehole is installed. Drill from the "least" to the "most" contaminated sites, if possible.

F. Field Sampling

1. Strictly comply with the sampling techniques, maximum holding times, and sample preservation as specified in the following references: Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), pages 37-44; ASTM, Section 11, Water and Environmental Technology; Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 2nd Edition (USEPA, 1984); Methods for Chemical analysis of Waters and Wastes, EPA Manual 600/4-79-020, pages xiii to xix (1983); and the Handbook for Sampling and Sample Preservation of Water and Wastewater, EPA Document 600/4-82-029 (1982).

2. Groundwater Monitoring Wells

a. After development, allow wells to stabilize for a minimum of three days before sampling.

b. Prior to purging the wells, examine the surface of the water table for the presence of hydrocarbons and take water level measurements to the nearest 0.01 foot with respect to the established survey point on top of the well casing. If applicable, measure the thickness of the hydrocarbon layer.

c. Purge the well using a submersible pump, bailer, or other acceptable method. Purge until a minimum of three well volumes (based on borehole diameter) of water has been displaced and the pH, temperature, specific conductance, color, and odor of the discharge have stabilized using the following criteria: pH $\pm$ 0.1 unit, temperature $\pm$ 0.5C, and specific conductance $\pm$ 10 mhos. Include the final measurements in the

Results section of the Final Report.

d. Collect water samples with a Teflon bailer. To collect representative aquifer samples where floating hydrocarbons are present, use a "thief sampler" or similar point sampling device to minimize the influence of the free product.

e. If the well(s) cannot be sampled due to well development, well characteristics, or other reason(s), indicate the reason(s) in the Final Report (Sequence No. 4, Item VI below).

f. Remeasure water levels after sampling and after the water conditions in the wells have stabilized.

3. For surface water/sediment samples, collect one surface water and one sediment sample at each sample location specified. Collect samples so as not to cause cross-contamination; obtain downstream samples first, and obtain the water sample at each location before the sediment sample. Measure pH, temperature, and specific conductance at each surface water sampling point. Permanently mark the location where surface water or sediment samples are collected. Record the location on a project map for each specific site or zone, whichever applies.

4. Split all water and soil samples. Analyze one set and immediately deliver the other set (the same collection day) to the Base POC. The Base POC will select 10% of the split samples, package the selections with appropriate forms, and deliver them to the contractor within 24 hours of receipt. Supply all packing and shipping materials to the Base POC for packaging the split samples. Immediately ship (within 24 hours) the POC-selected samples through overnight delivery to:

USAFOEHL/SA
Bldg 140
Brooks AFB TX 78235-5501

For all split samples sent to the USAFOEHL, complete an AF Form 2752A "Environmental Sampling Data" and/or an AF Form 2752B "Environmental Sampling Data - Trace Organics", (working copies will be provided under separate cover) with the following information:

a. Date and time collected

b. Purpose of sample (analyte and sample group)

c. Installation name (base)

d. Sample number

e. Source/location and depth of sample

f. Contract Task Numbers and Title of Project

g. Method of collection (bailer, suction pump, air-lift pump, etc.)

h. Volumes removed before sample taken (well samples only)

i. Special conditions (use of surrogate standard, etc.)

j. Preservatives used

k. Collector's name or initials

In addition, label each sample container with a permanent ink pen (water-proof laundry marker) to reflect the data in a, b, c, d, j and k above.

MOD 2 5. For every 10 field samples collected, take at least one additional sample (a field duplicate) for quality control purposes.
MOD 2 Appendix 1 provides a 10% allowance for these additional analyses. Duplicates shall be indistinguishable from other analytical samples so that personnel performing the analyses are not able to determine which samples are duplicates.

MOD 2 6. For every 20 field water samples collected, prepare and submit for analysis one field blank for all parameters analyzed in water. A
MOD 2 minimum of one field blank for each parameter is required. In addition, for every 20 field water samples collected for the analysis of volatile organic compounds (VOCs), prepare one trip blank and collect one bailer
MOD 2 wash sample. Assure that the water used for the field blanks, trip blanks, and bailer wash samples has been previously tested and is free of contaminants which would interfere with the required analyses. Allowances for these additional analyses are included in Appendix 1.

MOD 2 7. Maintain chain-of-custody records for all samples, field blanks, and quality control samples.

G. Chemical Analyses

1. Analyze water and soil samples collected as specified in Section H below, Specific Site Work. The analytical parameters are summarized in Appendix 1 along with the required methods.

2. All analyses shall meet the required limits of detection for the applicable method identified in Appendix 1.

3. For those methods which employ gas chromatography (GC) as the analytical technique (E601, E608, SW8010, SW8020, SW8080, SW8140, and SW8150) positive confirmation of identity is required for all analytes having concentrations higher than the Method Detection Limit (MDL). Conduct positive confirmation by second-column GC; however, gas chromatography/mass spectroscopy (GC/MS) can be used for positive confirmation if the quantity of each analyte to be confirmed is above the detection level of the GC/MS instrument. Analytes which cannot be confirmed will be reported as "Not Detected" in the body of the report, but results of all second-column GC or GC/MS confirmational analyses are to be included in the report appendix along with other raw analytical data. Base
MOD 2 the quantification of confirmed analytes on the first-column analysis. The

maximum number of second-column confirmational analyses shall not exceed eighty-five percent (85%) of the actual number of field samples (to include duplicates, field blanks, trip blanks, and bailer wash samples). The total number of samples listed in Appendix 1 includes the allowance applicable to each GC method. If GC/MS, or a combination of second-column GC and GC/MS, is used, the total cost of all such analyses for a particular parameter shall not exceed the funding allowed for positive confirmation using only second-column GC.

4. All chemical/physical analyses shall conform to state and other applicable Federal and local regulatory agency legal requirements. If a regulatory agency specifies that a type of analysis be performed in a certified laboratory, assure compliance with the requirement and furnish documentation showing laboratory certification with the first analytical data supplied to the USAFOEHL/TS.

5. Archive all raw data, including QA/QC and standards data, for not less than five years after project completion. Supply these data to the USAFOEHL/TS upon request.

H. Specific Site Work

In addition to items delineated in I.A. through I.G. above, conduct the following specific actions at the sites listed below:

1. Zones 1 and 2, Existing Monitoring Wells GW-1 to GW-10

The contractor shall complete all the work required in this paragraph, including the chemical analyses on the water samples, prior to initiating the drilling of new monitoring wells at Hancock FLD. The chemical and hydrogeological data obtained are to be used to determine placement of new monitoring wells. The contractor shall provide the analytical data, along with recommendations for well placements, to the OEHL technical program manager as soon as it becomes available, but not later than five weeks after samples are taken. Data and recommendations shall be in the form of an Informal Technical Information Report (Sequence No. 3, Item VI, below). The USAFOEHL Technical Program Manager must approve locations for all new monitoring wells prior to their installation.

Locate and inspect the ten existing wells. Replace broken cement collars around well casings with 2 foot by 2 foot square cement collars and install protective barrier posts as specified in paragraph I.D.3.a(6)(c)2. Measure the water level in each well and from this data determine the potentiometric surface for each zone. Conduct pump and/or slug tests to determine horizontal groundwater velocities. Purge each well (see paragraph I.F.2.c. above). Collect one water sample from each existing well (a total of ten samples). Analyze each sample for the following parameters:

Parameter	Method	Max Number of Analyses
Alkalinity, Carbonate & Bicarbonate	A403	10
Common Anions	A429	10
Conductance	E120.1	10
pH	E150.1	10
Total Dissolved Solids	E160.1	10
Temperature	E170.1	10
Petroleum Hydrocarbons	E418.1	10
Purgeable Halocarbons	E601	10
Aromatic Volatile Organics	SW5030/SW8020	10
Metals Screens (Total of 26 Metals)	E200.7 (23 metals) plus	10
	E206.2 (As)	10
	E245.1 (Hg)	10
	E270.2 (Se)	10
Extractable Priority Pollutants (GC/MS)	E625	10

2. Fire Training Area (FT-1)

The purpose of the Stage 2 work at FT-1 is to determine the vertical and horizontal extent of contamination around the site through soil gas analyses and a soil sampling program. Using visual observations and a probe-type soil gas analysis technique, determine the approximate boundaries of the site and the extent and direction of any plume which might be emanating from the site. Include the plume as part of the overall site area. A maximum of thirty soil gas probes shall be installed at FT-1. Once the boundaries (including the plume) have been determined, develop a grid system for soil sampling radiating out from the center of the site. Establish soil sampling transect lines at 45 degree angles around the site. Each of the eight transect lines shall have three sampling stations. The total number of sampling stations for the site is 24. Locate the first sampling station on each transect line at a distance halfway between the center of the site and the site boundary. Place the second at the intersection of the transect line and the site boundary. Place the last sampling station on each transect line 100 feet past the boundary of the site. Using hollow stem auger equipment and stainless steel split spoon samplers, drill one borehole at each sampling station and take a maximum of three soil samples. Take samples at 5-foot intervals (see paragraph I.D.4.b.) until either a depth of 15 feet or the water table is reached. If the water table is encountered, collect the sample from the last interval at the water interface. A maximum of 72 soil samples shall be taken at the site. Identify all sampling stations with permanent markers. Analyze each soil sample for the following parameters:

Parameter	Method	Max Number of Analyses
Petroleum Hydrocarbons	SW3550/E418.1	72
Lead	SW3050/SW7420	72
Volatile Organics(GC/MS)	SW5030/SW8240	72

Select ten of the most highly contaminated samples (as determined by the soil gas analyses) from the total number of soil samples collected. Perform the following additional analyses on these ten samples:

Parameter	Method	Max Number of Analyses
Semivolatile Organics(GC/MS)	SW3550/SW8270	10

Install three well pairs to triangulate the site. A well pair is defined as two singly completed wells installed side-by-side and drilled to different depths. These six wells shall be the first ones installed at Hancock FLD. The wells shall be completed, purged, and sampled as rapidly as is feasible, without sacrificing sample integrity. Sufficient time must be allowed for completion of the initial chemical analyses on the water samples while the well drilling subcontractor is still at Hancock FLD, in the event that additional wells will be required at FT-1. Locate one well pair upgradient to site FT-1; place the other two downgradient in the direction of plume migration. One downgradient well pair shall be within 50 feet of the site boundary. The second downgradient well pair shall be

MOD 2 installed no more than 150 feet from the site boundary. Drill the deep well of each well pair into bedrock to a depth sufficient for setting a 20-foot screen and obtaining a representative sample from the aquifer. Drill the shallow well of the pair to 20 feet below the water table and screen the interval below the capillary fringe. The well screen must not extend into the capillary fringe of the unsaturated zone where free floating product may be encountered. Take one water sample from each well (a total of six water samples). Analyze each sample for the following parameters:

Parameter	Method	Max Number of Analyses
Conductance	E120.1	6
pH	E150.1	6
Temperature	E170.1	6
Petroleum Hydrocarbons	E418.1	6
Purgeable Halocarbons	E601	6
Aromatic Volatile Organics	SW5030/SW8020	6

Based upon the analytical data obtained during the first round of sampling of the initial six wells, evaluate the need for additional downgradient wells at FT-1. A maximum of two additional well pairs shall be installed if the analytical data obtained for the wells farthest downgradient from the site boundary indicate water contamination. The contractor must obtain approval from the USAFOEHL Technical Program Manager prior to the installation of additional wells. After installation of all wells at FT-1, conduct a second round of sampling. Take one water sample from each well (a maximum of 10 water samples). Analyze each water sample for the following parameters:

Parameter	Method	Max Number of Analyses
Conductance	E120.1	10
pH	E150.1	10
Temperature	E170.1	10
Petroleum Hydrocarbons	E418.1	10
Purgeable Halocarbons	E601	10
Aromatic Volatile Organics	SW5030/SW8020	10
Lead	E239.2	10

MOD 2 3. Disposal Site D-5

MOD 2 Install three shallow wells to triangulate the site. Locate one shallow well upgradient to site D-5; the other two downgradient. One downgradient shallow well shall be installed within 50 feet of the site boundary. The second downgradient shallow well shall be installed no more than 150 feet from the site boundary. Take one water sample from each well and one water sample from well MW-10, located north of D-5 (a total of four samples). Analyze each sample for the following parameters:

	Parameter	Method	Max Number of Analyses
MOD 2	Alkalinity, Carbonate & Bicarbonate	A403	4
MOD 2	Common Anions	A429	4
MOD 2	Conductance	E120.1	4
MOD 2	pH	E150.1	4
MOD 2	Total Dissolved Solids	E160.1	4
MOD 2	Temperature	E170.1	4
MOD 2	Petroleum Hydrocarbons	E418.1	4
MOD 2	Purgeable Halocarbons	E601	4
MOD 2	Aromatic Volatile Organics	SW5030/SW8020	4
MOD 2		E200.7 (23 metals) plus	4
MOD 2	Metals Screen (Total of 26 Metals)	E206.2 (As)	4
MOD 2		E245.1 (Hg)	4
MOD 2		E270.2 (Se)	4
MOD 2	Extractable Priority Pollutants (GC/MS)	E625	4

MOD 2 The requirement to collect split samples (paragraph I.F.4) at Site D-5 is deleted.

V MOD 1 Conduct a second round of groundwater sampling. Take samples from each well at the site and from well MW-10 (a total of four samples). Analyze for total and dissolved thallium using the following method:

Parameter	Method	Max Number of Analyses
Thallium	SW3020/SW7841	
	Total	4
	Dissolved	4

V MOD 1 The portion of the sample to be analyzed for dissolved thallium must be field-filtered through a 0.45 micron filter immediately after collection and prior to preservation.

4. Zones 1 and 2, Surface and Sediment Monitoring Stations

Resample the nine existing surface water and sediment monitoring stations (or locations) in Zones 1 and 2. See the Stage 1 Report, provided under separate cover. Establish eight new surface water and sediment monitoring stations in Zone 1 at the locations indicated in Appendix 3 (Figure 2-11, extracted from the Phase II, Stage 1, report, page 2-22). Establish four new surface water and sediment monitoring stations in Zone 2 at locations indicated in Appendix 4 (Figure 2-8, extracted from the Phase II, Stage 1, report, page 2-16). Collect twenty-one surface water samples from Zones 1 and 2, one from each old and one from each new sampling station. Analyze each sample for the following parameters:

Parameter	Method	Max Number of Analyses
Conductance	E120.1	21
pH	E150.1	21
Temperature	E170.1	21
Petroleum Hydrocarbons	E418.1	21
Purgeable Halocarbons	E601	21
Aromatic Volatile Organics	SW5030/SW8020	21
Priority Pollutant Metals (Total of 13 Metals)	E200.7 (Sb,Be,Cd,Cr, Cu,Pb,Ni,Ag,Tl,Zn)	21
	E206.2 (As)	21
	E245.1 (Hg)	21
	E270.2 (Se)	21
Extractable Priority Pollutants (GC/MS)	E625	21

Collect twenty-one sediment samples from Zones 1 and 2, one from each old and one from each new sampling station. Analyze each sample for the following parameters:

Parameter	Method	Max Number of Analyses
Petroleum Hydrocarbons	SW3550/E418.1	21
Priority Pollutant Metals (Total of 13 Metals)	SW3050/SW6010 (Sb,Be, Cd,Cr,Cu,Pb,Ni,Ag, Tl,Zn)	21
	SW7060 (As)	21
	SW7471 (Hg)	21
	SW7740 (Se)	21
Volatile Organics(GC/MS)	SW5030/SW8240	21
Semivolatile Organics(GC/MS)	SW3550/SW8270	21

5. Zone 2, Disposal Sites D-1 and D-3

MOD 2 Install two new well pairs and two new deep wells within Zone 2. Locate

one well pair downgradient to Site D-3. Locate the other well pair between sites D-1 and D-3. The exact locations of the well pairs shall be determined in the field by the project manager in coordination with the USAFOEHL Technical Program Manager. Install one of the deep wells next to existing upgradient well GW-3. Install the second deep well next to downgradient well GW-6. Drill the deep wells into bedrock to a depth sufficient for setting a 20-foot screen and obtaining a representative sample from the aquifer. Drill the shallow wells to 20 feet below the water
MOD 2 table and screen the interval. Take one water sample from each new well (a total of six water samples). Analyze each sample for the following parameters:

	Parameter	Method	Max Number of Analyses
MOD 2	Alkalinity, Carbonate & Bicarbonate	A403	6
MOD 2	Common Anions	A429	6
MOD 2	Conductance	E120.1	6
MOD 2	pH	E150.1	6
MOD 2	Total Dissolved Solids	E160.1	6
MOD 2	Temperature	E170.1	6
MOD 2	Petroleum Hydrocarbons	E418.1	6
MOD 2	Purgeable Halocarbons	E601	6
MOD 2	Aromatic Volatile Organics	SW5030/SW8020	6
MOD 2		E200.7 (23 metals) plus	6
MOD 2	Metals Screens (Total of 26 Metals)	E206.2 (As)	6
MOD 2		E245.1 (Hg)	6
MOD 2		E270.2 (Se)	6
MOD 2	Extractable Priority Pollutants (GC/MS)	E625	6

6. Zone 2, Disposal Sites D-1 and D-3

Conduct a magnetometer survey within sites D-1 and D-3 to detect the presence of buried drums. Horizontally locate all buried drums to an accuracy of 1 foot and record on site maps. Identify the locations of buried drums in the field with permanent markers. Uncovering and removal of the drums is not part of this Phase II project.

7. S-3 Entomology Underground Storage Tank (New Site)

This concrete underground storage tank is no longer in use. The contents were pumped out at the time of deactivation; however, groundwater seeps into the tank. Take one water sample from the tank contents through the access pipe on top of the tank. Analyze the sample for the following parameters:

Parameter	Method	Max Number of Analyses
Conductance	E120.1	1
pH	E150.1	1
Temperature	E170.1	1
Organochlorine Pesticides	E608	1
Organophosphorus Pesticides	SW3510/SW8140	1
Chlorinated Phenoxy Acid Herbicides	SW8150	1

Establish a soil sampling station 20 feet or less downgradient from the tank. The sampling station should be identified with a permanent marker. Using hollow stem auger equipment and stainless steel split spoon samplers, drill one borehole and take a maximum of three soil samples. Take the samples at 5-foot intervals (see paragraph I.D.4.b) until either a depth of 15 feet or the water table is reached. If the water table is encountered, collect the sample from the last interval at the water interface. Analyze each soil sample for the following parameters:

Parameter	Method	Max Number of Analyses
Organochlorine Pesticides	SW3550/SW8080	3
Organophosphorus Pesticides	SW3550/SW8140	3
Chlorinated Herbicides	SW8150	3

8. Site S-1 Transformer Storage Area (New Site)

Visually inspect the land surface area within a 50-foot radius of Building 530. Mark all areas where soil is found to be oily or abnormally colored, indicating a possible spill. If no oily or discolored areas are found during the visual inspection, select two sites at random no farther than 10 feet from Building 530. Take 1 surface soil sample using a hand auger from each marked area and 1 surface soil sample inside of building 530 (see paragraph I.D.4.a.). A maximum of six (6) soil samples shall be taken at this site. Analyze each sample for the following parameters:

Parameter	Method	Max Number of Analyses
Petroleum Hydrocarbons	SW3550/E418.1	6
PCBs	SW3550/SW8080	6

9. Site SP-1 Old Spill Area (New Site)

Locate the storm sewer outfall from the SAGE plant (Bldg 503) which is described in the Phase I Report, page 4-10. This outfall is site SP-1. Collect three surface water samples. Take one sample at the outfall. Take the second and third surface water samples at points 50 and 100 feet,

respectively, downstream of the outfall. Analyze each sample for the following parameters:

Parameter	Method	Max Number of Analyses
Conductance	E120.1	3
pH	E150.1	3
Temperature	E170.1	3
Petroleum Hydrocarbons	E418.1	3
Purgeable Halocarbons	E601	3
Aromatic Volatile Organics	SW5030/SW8020	3
Lead	E239.2	3

Collect sediment samples at the same locations where water samples were collected. Analyze each sediment sample for the following parameters:

Parameter	Method	Max Number of Analyses
Petroleum Hydrocarbons	SW3550/E418.1	3
Volatile Organics(GC/MS)	SW5030/SW8240	3
Lead	SW3050/SW7420	3

10. Background Soil Samples

Select a site in an undisturbed area on base where contaminants are not expected to be found and which has typical native soils. Drill one borehole. Take samples at 5-foot intervals (see paragraph I.D.4.b.) until either a depth of 15 feet or the water table is reached. If the water table is encountered, collect the sample from the last interval at the water interface. These soil samples are to be used to establish background levels of metals and petroleum hydrocarbons. Analyze each soil sample for the following parameters:

Parameter	Method	Max Number of Analyses
Petroleum Hydrocarbons	SW3550/E418.1	3
Lead	SW3050/SW7420	3
Priority Pollutant Metals (Total of 13 Metals)	SW3050/SW6010 (Sb,Be, Cd,Cr,Cu,Pb,Ni,Ag, Tl,Zn)	3
	SW7060 (As)	3
	SW7471 (Hg)	3
	SW7740 (Se)	3

MOD 2 11. Abandonment of Well GW-4

MOD 2 Abandon well GW-4 in accordance with state and/or local well abandonment guidelines and regulations (see paragraph I.D.3.b.).

NEW PARA ADDED PER MOD 3

12. Baseline Risk Assessment

a. Evaluate the threat of contaminants to public health and welfare or the environment through a literature search of documents identified in Section 2 of the USAFOEHL/TSS Handbook, Version 2.0, dated April 1988 (provided under separate cover). This effort shall satisfy the requirement in the Superfund Amendments and Reauthorization Act (SARA) of 1986 to identify all Applicable or Relevant and Appropriate Requirements (ARARs).

b. After a thorough review of all data gathered during the field investigation and the establishment of ARARs (paragraph I.H.12.a. above), determine the potential risk to human health and welfare or the environment from the contaminants identified at the various sites investigated. Do the following:

(1) Identify the physical and chemical characteristics of the site contaminants (e.g., toxicity, carcinogenicity, flammability, etc.)

(2) Identify release mechanisms (e.g., volatilization, leaching) and estimate the volume of contaminants released or being released at each IRP site.

(3) Identify potential human and environmental receptors and receptor characteristics which might increase vulnerability to the effects of contaminants.

(4) Determine potential contaminant exposure pathways (e.g., direct contact, inhalation of vapors/dust, ingestion of contaminated water or soil, ingestion of aquatic organisms, etc.).

(5) Determine representative rates of migration associated with individual sites. Rates of flow, groundwater velocities, and times necessary to reach receptors shall be calculated based on a range of conservative assumptions.

c. Include results of the baseline risk assessment in Section IV of the Final Report (paragraph I.J.).

NEW PARA ADDED PER MOD 3

13. Identify those IRP sites posing no threat to human health, welfare or the environment and which no further action is appropriate. Prepare a technical decision document to support this finding (Sequence No. 4, Item VI). One decision document is required for each such site. Use the format provided in Section 11 of the USAFOEHL/TSS Handbook, Version 2.0, dated 15 Apr 88 (mailed under separate cover).

NEW PARA ADDED PER MOD 3

14. Identify those IRP sites which will require further remedial investigation or a feasibility study. Prepare a Work Plan (Sequence No. 4, Item VI) for this next effort. Use the Work Plan format provided in Section 4 of the USAFOEHL/TSS Handbook, Version 2.0, dated April 1988 (mailed under separate cover). Forward all copies to USAFOEHL/TSS.

I. Data Review

1. Tabulate field and analytical laboratory results, including field and laboratory parameters and QA/QC data, as they become available and incorporate them into the next monthly R&D Status Report (Sequence No.1, Item VI below) forwarded to the USAFOEHL. In addition to the results, report the following:

a. the time and dates of sample collection, extraction (if applicable) and analysis;

b. the method used and Method Detection Limits achieved;

c. the chain-of-custody forms;

d. a cross-reference of laboratory sample numbers and field sample numbers;

e. a cross-reference of field sample numbers to wells, boreholes, sites, etc.

2. Upon completion of all analyses, tabulate and incorporate all results into an Informal Technical Information Report (Sequence No. 3, Item VI below) and forward the report to USAFOEHL for review a minimum of two weeks prior to submission of the draft report. Provide as a minimum the information specified in I.I.1 above.

3. Immediately report to the USAFOEHL Program Manager or his supervisor, via telephone, data/results generated during this investigation which indicate a potential health risk (for example, a contaminated drinking water aquifer). Follow the telephone notification with a written notice within three days and attach a copy of the laboratory raw data (e.g., chromatogram).

NEW PARA ADDED PER MOD 4

4. Prepare a letter report (Sequence No. 4, Item VI) delineating the findings from the field investigation at Site D-5 (Modification 2 to Delivery Order). Include alternative measures and formulate recommendations based upon findings. Include field and analytical laboratory results, and other information specified in paragraph I.I.1. above, as attachments to the letter report. A separate Informal Technical Information Report (paragraph I.I.2) is not required for Site D-5."

J. Reporting

1. Prepare a draft report delineating all findings of this field investigation and forward it to the USAFOEHL (as specified in Sequence No. 4, Item VI below) for Air Force review and comment. Strictly adhere to the USAFOEHL report format (mailed under separate cover). The format is an integral part of this delivery order. Draft reports are considered "drafts" only in the sense that they have not been reviewed and approved by Air Force officials. In all other respects, "drafts" must be complete, in the proper format, and free of grammatical and typographical errors. Include as a minimum, discussion of the regional/site-specific hydrogeology, well and boring logs, data from water level surveys, water

table configuration and/or piezometric contour maps, water quality and soil analysis results, hydrogeological cross sections, and laboratory and field QA/QC information. For states that require the field work or technical effort to be supervised by a state-registered geologist, engineering geologist or professional engineer; insert this information into the report and include registration numbers, certificates and seals (as appropriate).

2. Review the Results, Conclusions and Recommendations concerning the sites listed in this task which were investigated during a previous IRP Phase II stage work effort. Use this information and data from previous efforts to establish trends and develop conclusions and recommendations. Integrate all investigative work done at each site to date so the report reflects the total cumulative information for each site studied in this effort.

3. In the Results section, include water and soil analytical results and field quality control sample data. Report all internal laboratory quality control data (lab blanks, lab spikes and lab duplicates) and laboratory quality assurance information in an appendix of the report. Also provide second-column confirmation results and quantities, and include which columns were used, instrument operating conditions, and retention times. Summarize in the appendix the specific collection technique, analytical method (Standard Methods, EPA, etc.), holding time, and limit of detection for each analyte.

4. Make estimates of the magnitude, extent and direction which detected contaminants are moving. Identify potential environmental consequences of the discovered contaminants based upon state or Federal standards.

5. Plot and map all field data collected for each site according to surveyed positions.

6. In the Recommendations section, address each site and list them by category:

a. Category I consists of sites where no further action (including remedial action) is required. Data for these sites are considered sufficient to rule out unacceptable public health or environmental hazards.

MOD 3 b. Category II sites are those requiring an additional IRP effort to determine the direction, magnitude, rate of movement and extent of detected contaminants. Identify potential environmental consequences of discovered contamination.

MOD 3 c. Category III sites are those sites where contamination has been identified and quantified and which require a feasibility study to develop recommendations for remedial action. In the recommendations for Category III sites, include a discussion of any possible influence on sites in Categories I and/or II due to their connection with the same hydrological system. Clearly state any dependency between sites in different categories. Include a list of possible remedial action

alternatives, including long term montoring (LTM) as a remedial action, and the corresponding rationale that should be considered in selecting the remedial action for a given site. Included here should be recommendations on wells to be abandoned and/or sealed, if appropriate. List all alternatives that could potentially bring the site into compliance with environmental standards. For contaminants that do not have standards, use EPA-recommended safe levels for noncarcinogens (Health Advisory or Suggested-No-Adverse-Response Levels) and target levels for carcinogens 1×10^{-6} cancer risk level). Unless specifically requested, do not perform any cost analyses or cost/benefit reviews for remedial action alternatives. However, in those situations where field survey data indicate immediate corrective action is necessary, present specific, detailed recommendations.

7. For each category above, summarize the results of field data, environmental or regulatory criteria, or other pertinent information supporting conclusions and recommendations. Reduce this summary information into a table (or tables) which will be included in the text and the Executive Summary.

MOD 3 8. In a separate letter, submit a lump sum cost estimate (Sequence No. 2, Item VI) for the effort required to perform work detailed in the Work Plan for the next effort.

9. Provide an inventory of all on-base wells, to include production, irrigation, monitoring, etc. If the well has been abandoned, note the reason, and identify the wells which have been permanently plugged or sealed.

10. Reference in an appendix any local, state and/or Federal regulations which require specific well drilling techniques, materials, well development, purging, and sampling methods for work specified in this effort.

MOD 3 11. Provide three (3) microfiche copies of the approved Final Report (Sequence No. 17, Item VI).

K. Meetings

The contractor's project leader shall attend 1 meeting to take place at a time to be specified by the USAFOEHL. The meeting shall take place at Hancock FLD NY for a duration of one eight hour day.

MOD 3 L. The above technical efforts, including the maximum requirements for each category, are estimates only. Should the technical efforts, including field work, require variations from these estimates, the contractor shall obtain written concurrence from USAFOEHL/TS prior to proceeding with the variations. Under such circumstances, the ceiling of this order shall remain unchanged. Should an increase in the ceiling amount be necessary, contracting officer authorization will be required prior to proceeding with the variation.

II. SITE LOCATION AND DATES:

Hancock FLD NY
Date to be established

III. BASE SUPPORT:

A. Prior to any contractor digging or drilling, the Base Civil Engineer will locate underground utilities and issue digging or other appropriate permits.

B. The Base Civil Engineer will assign accumulation points within the installation for the contractor to use to deliver any drill cuttings or well installation/development fluids generated from the required work which are suspected to be hazardous. The contractor is responsible for providing all necessary containers (55 gallon drums) and for transporting the containerized material to the accumulation point.

C. The Base Civil Engineer will take custody of any drill cuttings or well installation/development fluids suspected to be hazardous and properly dispose of the material according to applicable state and/or federal regulations.

D. The Base will provide the contractor with existing engineering plans, drawings, diagrams, aerial photographs, etc., to evaluate sites under investigation.

E. The Base will obtain a letter from the responsible official at the commercial airport allowing the contractor access to airport property for the purpose of taking surface water and sediment samples from the runway taxi area adjacent to the Hancock FLD ANG Base boundary. These samples may be necessary for background data on the quality of surface water entering the base.

F. The Base Point of Contact (POC) shall select 10% of the samples provided by the contractor, package them, and ensure that they are picked up by the contractor within 24 hours of receipt (see paragraph I.F.4). The exact identities of samples selected shall not be provided to the contractor.

G. The Base will arrange for, and have available prior to the start up of field work, the following services, materials, work space, and items of equipment to support the contractor during the investigation:

1. Personnel identification badges, vehicle passes and/or entry permits.

2. A secure staging area for storing equipment and supplies.

3. A supply (i.e., fire hydrant) of large quantities (up to a maximum of 1,000 gallons) of potable water for borehole flushing, equipment cleaning, etc.

4. A paved area where drilling equipment can be cleaned and

decontaminated. A source of potable water (i.e., ordinary outdoor water faucet) and a 110/115 VAC electrical outlet must be available within 25 feet of the paved area for steam cleaner hookup. Drainage from this paved area should be through an oil/water separator to a sanitary sewer.

5. A temporary office area, not to exceed 100 square feet and equipped with a Class A telephone for local and long distance telephone calls. The contractor shall pay for any long distance telephone calls made by his personnel from this phone.

6. A household-type refrigerator having approximately two cubic feet of freezer space.

7. A set of keys to the locks on the ten existing monitoring wells (GW-1 through GW-10) at Hancock FLD and to the lock on the door of Bldg 530 at the old transformer storage area. The keys shall be returned to the Base POC by the contractor when the survey has been completed.

IV. GOVERNMENT FURNISHED PROPERTY: None

V. GOVERNMENT POINTS OF CONTACT:

1. USAFOEHL
Technical Program Manager

Ms Judith F Burris
USAFOEHL/TSS
Brooks AFB TX 78235-5501
(512) 536-2158
AV 240-2158/2159
1-800-821-4528

2. Base Point of Contact (POC)

TSgt Allan C Smith
174 TAC Clinic/SGPB
Hancock Fld
Syracuse NY 13211-7099
(315) 470-6347, 6167
AV 587-9347, 9167

3. MAJCOM Monitor

MOD 3 SMSgt James L Craig
ANGSC/SGB
Andrews AFB MD 20331-6008
(301) 981-5926
AV 858-3443/5926

4. Base Civil Engineer POC

Maj Temple Myers
174 TAC Civil Engineering/DE
Hancock FLD
Syracuse NY 13211
(315) 470-6449
AV 587-9449

VI. In addition to sequence numbers 1, 5 and 11 listed in Attachment 1 to the contract, and which apply to all orders, the sequence numbers listed below are applicable to this order. Also shown are dates applicable to this order.

	Sequence No.	Para No.	Block 10	Block 11	Block 12	Block 13	Block 14
	19 (TOP)*	I.B.	OTIME	86 Sep 05	86 Sep 12		15
	7 (Health & Safety)	I.C.	OTIME	86 Sep 05	86 Sep 12		3
	3 (Prelim. Data)	I.H.1	OTIME	******	******		3
V MOD 1	4(NFA Dec.Doc.)	I.H.13	ONE/R	89 Mar 31	89 Apr 28		****
V MOD 1	4(Work Plan)	I.H.14	ONE/R	89 Mar 31	89 Mar 31		4
	3 (Prelim. Data)	I.I.2	OTIME	**	**		3
V MOD 1	4(Ltr Rep)	I.I.4	ONE/R	89 Jan 06	89 Jan 31		*****
V MOD 1	4 (Tech. Rpt)	I.J.	ONE/R	87 Jan 16	87 Jun 19	89 Mar 31	***
MOD 3	2 (Cost ltr)	I.J.8.	OTIME	88 Dec 15	89 Feb 28	--	3
MOD 3	14 [DELETED]						
MOD 3	15 [DELETED]						
V MOD 1	17 (Micro-fiche)	I.J.11	OTIME	89 Mar 31			3

*The Technical Operations Plan (TOP) required for this stage is due within two weeks of the Notice to Proceed.

**Upon completion of the total analytical effort and before submission of the first draft report.

***Two draft reports (25 copies of each) and one final report (50 copies plus the original camera-ready copy) are required. Incorporate Air Force comments into the second draft and final reports as specified by the USAFOEHL. Supply the USAFOEHL with an advance copy of the first draft, second draft, and final reports for acceptance prior to distribution. Distribute the remaining 24 copies of each draft report and 49 copies of the final report as specified by the USAFOEHL.

MOD 3 ****One draft (15 copies) and one final (10 copies) decision document are required for each site recommended for no further action. Incorporate comments into the draft decision document as specified by USAFOEHL/TS. Supply USAFOEHL/TS with one advance copy of each draft and final decision document for acceptance prior to distribution. Distribute the remaining 14 draft and 9 final copies of each decision document as specified by USAFOEHL/TSS.

MOD 3 *****One draft (5 copies) and one final (25 copies) Letter Report are required. Forward all five (5) copies of the draft Letter Report to USAFOEHL/TS. Incorporate comments into the draft Letter Report as specified by USAFOEHL/TS. Supply USAFOEHL/TS with one advance copy of the final Letter Report for acceptance prior to distribution. Distribute the remaining 24 copies of the Letter Report as specified by USAFOEHL/TSS.

****** Due within five weeks after samples are taken.

NEW SECTION ADDED PER MOD 4

VII. McENTIRE ANGB SC

A. Conduct analyses for semivolatile organic compounds, method SW3550/SW8270, on soil samples collected at McEntire ANGB SC:

Site	Number of Analyses
1	5 (see note below)
3	15
Cedar Crk	8
Soil Toxicity	5
S.P Above SW/SD2-1	8
Drilling Fluid	1
Dup/Rep	4
TOTAL ADDED ANALYSES	46

Note: At Site 1, select for analysis the five (5) most contaminated samples based upon OVA and HNu readings.

B. Conduct additional analyses for volatile organic compounds, method SW8240, on soil samples collected at McEntire ANGB SC:

Site	Number of Additional Analyses
1	25
3	13
7	11
Cedar Crk	7
Soil Toxicity	4
S.P. Above SW/SD2-1	7
Trip Blanks	8
Dup/Rep	7
TOTAL ADDED ANALYSES	82

C. Incorporate analytical results into the Technical Report (Item VI, Sequence No 4) for Delivery Order 003, Contract F33615-85-D-4543.

MOD 4 [Delete Appendix 6 and Notes.]

Analytical Methods, Detection Limits, and Number of Analyses

	PARAMETER	METHOD	DETECTION LIMIT	REPORTNG UNITS (e)	NUMBER OF ANALYSES	QA/QC	FIELD BLANKS	SECOND COLUMN	TOTAL ANALYSES
	Water Samples								
MOD 2	Alkalinity, Carbonate & Bicarbonate	A403	10	mg/L	21 water	2 water	2 water		25 water
MOD 2	Common Anions	A429	0.1	mg/L	21 water	2 water	2 water		25 water
MOD 2	Conductance (Field Test)	E120.1	-	umhos/cm	61 water	0 water	0 water		61 water
MOD 2	pH (Field Test)	E150.1	-	pH Units	61 water	0 water	0 water		61 water
MOD 2	Total Dissolved Solids	E160.1	10	mg/L	21 water	2 water	2 water		25 water
MOD 2	Temperature (Field Test)	E170.1	-	deg C	61 water	0 water	0 water		61 water
	ICP Scan for 10 Priority Priority Pollutant Metals	E200.7	(b)	mg/L	21 water	2 water	1 water		24 water
MOD 2	Metals Screen (23 metals)	E200.7	(b)	mg/L	20 water	2 water	2 water		24 water
MOD 2	Arsenic	E206.2	0.001	mg/L	41 water	4 water	3 water		48 water
	Lead	E239.2	0.002	mg/L	13 water	1 water	1 water		15 water
MOD 2	Mercury	E245.1	0.0002	mg/L	41 water	4 water	3 water		48 water
MOD 2	Selenium	E270.2	0.002	mg/L	41 water	4 water	3 water		48 water
MOD 2	Petroleum Hydrocarbons	E418.1	1.	mg/L	54 water	5 water	3 water		62 water
MOD 2	*Petroleum Hydrocarbons	E418.1	1.	mg/L	6 water	1 water	1 water		8 water
MOD 2	Purgeable Halocarbons	E601	(a)	ug/L	54 water	4 water	9 water	58 water	125 water
MOD 2	*Purgeable Halocarbons	E601	(a)	ug/L	6 water	2 water	1 water	2 water	11 water
MOD 2	Aromatic Volatile Organics	SW5030/ SW8020	(a)	ug/L	54 water	4 water	9 water	58 water	125 water
MOD 2	*Aromatic Volatile Organics	SW5030/ SW8020	(a)	ug/L	6 water	2 water	1 water	2 water	11 water
	Organochlorine Pesticides	E608	(a)	ug/L	1 water	1 water	1 water	1 water	4 water
	Organophosphorus Pesticides	SW3510/ SW8140	(a)	ug/L	1 water	1 water	1 water	1 water	4 water
	Chlorinated Phenoxy Acid Herbicides	SW8150	(a)	ug/L	1 water	1 water	1 water	1 water	4 water
MOD 2	Extractable Priority Pollutants (GC/MS)	E625	(a)	ug/L	41 water	4 water	3 water		48 water
V MOD 1	*Thallium, Total and Dissolved	SW3020/ SW7841	0.001	mg/L	4 water		1 water	5 water@	10 water

MOD 2 *Denotes rapid turn-around samples CLIN 0002.

V MOD 1 @Laboratory is expected verify the absence of matrix interferences in accordance with the method (i.e., analytical spike, serial dilution, etc). If matrix interference is indicated, quantitation shall be by the Method of Standard Additions (MSA). An allowance (one addition per sample) has been provided for the MSA analyses.

Soil Samples

Petroleum Hydrocarbons	SW3550/ E418.1	1.	mg/kg	106 soil	11 soil		117 soil
Metals Screen (23 metals)	SW3050/ SW6010	(d)	mg/kg	1 soil			1 soil
ICP Scan for 10 Priority Pollutant Metals	SW3050/ SW6010	(d)	mg/kg	24 soil	2 soil		26 soil
Arsenic	SW7060	0.1	mg/kg	25 soil	3 soil		28 soil
Lead	SW3050/ SW7420	10	mg/kg	79 soil	8 soil		87 soil
Mercury (Cold Vapor)	SW7471	0.1	mg/kg	25 soil	3 soil		28 soil
Selenium	SW7740	0.2	mg/kg	25 soil	3 soil		28 soil
Organochlorine Pesticides	SW3550/ SW8080	1	mg/kg	3 soil	1 soil	2 soil	6 soil
PCBs	SW3550/ SW8080	1	mg/kg	6 soil	1 soil	4 soil	11 soil
Organophosphorus Pesticides	SW3550/ SW8140	1	mg/kg	3 soil	1 soil	2 soil	6 soil
Chlorinated Herbicides	SW8150	1	mg/kg	3 soil	1 soil	2 soil	6 soil
Volatile Organics (GC/MS)	SW5030/ SW8240	1	mg/kg	97 soil	10 soil		107 soil
Semivolatile Organics (GC/MS)	SW3550/ SW8270	1	mg/kg	32 soil	3 soil		35 soil
Soil Moisture Content	ASTM D2216-71	-	%	108 soil	11 soil		119 soil
RCRA Waste Monitoring							
EP Toxicity Extraction	SW1310			21 soil			21 soil
EP Toxicity (metals)	SW Manual	(c)		20 soil			20 soil

NOTES

a Detection limits as specified by the applicable EPA or Standard Method.

b

Metal	mg/L	Metal	mg/L
Al	0.045	Mn	0.002
Sb	0.032	Mo	0.008
Ba	0.002	Ni	0.015
Be	0.0003	K	(determine at time of analysis)
B	0.005	Silica	0.058
Cd	0.004	Ag	0.007
Ca	0.010	Na	0.029
Cr	0.007	Tl	0.040
Co	0.007	V	0.008
Cu	0.006	Zn	0.002
Fe	0.007		
Pb	0.042		
Mg	0.030		

c

Metal	mg/L of leaching solution
As	0.053
Ba	0.1
Cd	0.005
Cr	0.05
Pb	0.1
Hg	0.0002
Se	0.075
Ag	0.01

d

Metal	mg/kg	Metal	mg/kg
Al	4.5	Mn	0.2
Sb	3.2	Mo	0.8
Ba	0.2	Ni	1.5
Be	0.03	K	(determine at time of analysis)
B	0.5	Silica	5.8
Cd	0.4	Ag	0.7
Ca	1.0	Na	2.9
Cr	0.7	Tl	4.0
Co	0.7	V	0.8
Cu	0.6	Zn	0.2
Fe	0.7		
Pb	4.2		
Mg	3.0		

e For soil samples, report results as mg/kg of dry soil. Report moisture content for each soil sample.

Appendix 2

Analyze one drilling fluid additive sample for the following chemical parameters:

Parameter	Method	Max Number of Analyses
Petroleum Hydrocarbons	SW3550/E418.1	1
Metals Screen (23 metals)	SW3050/SW6010	1
Arsenic	SW7060	1
Lead	SW3050/SW7420	1
Mercury (Cold Vapor)	SW7471	1
Selenium	SW7740	1
Volatile Organics (GC/MS)	SW5030/SW8240	1
Semivolatile Organics (GC/MS)	SW3550/SW8270	1
Total Dissolved Solids	E160.1*	1
Common Anions	A429*	1
Alkalinity, Carbonate & Bicarbonate	A403*	1

* Perform an extraction of the drilling fluid additive using a modified SW1310 method:

(1) Use reagent water, no acid.
(2) Do not adjust the pH.
(3) Analyze the filtrate by the indicated method.

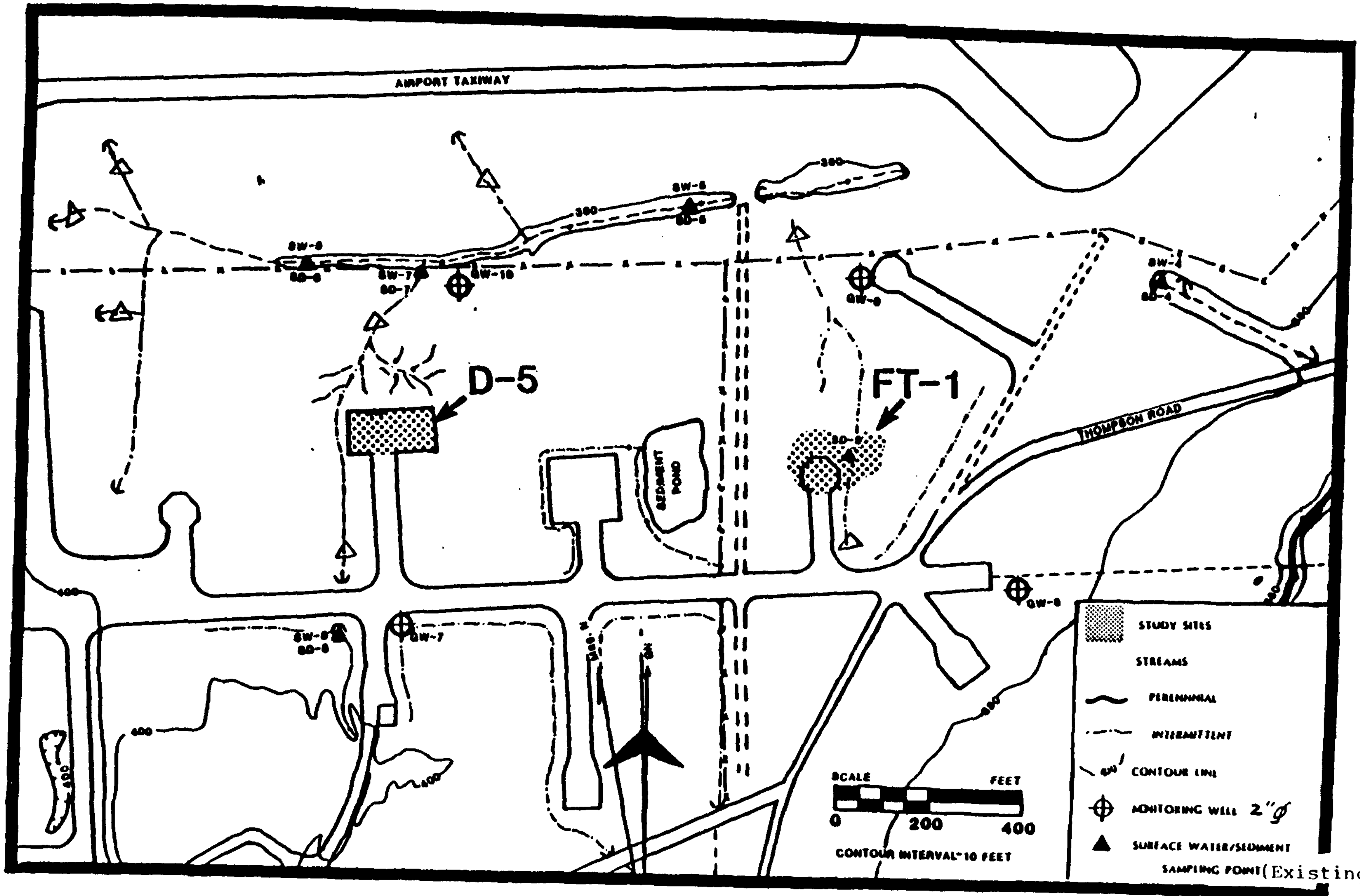


FIGURE 2-11. ZONE 1 - SAMPLING POINT LOCATIONS

Δ - Proposed surface water and sediment monitoring stations

(locations of monitoring wells at sites *FT-1 and D-5 to be determined by contractor)*

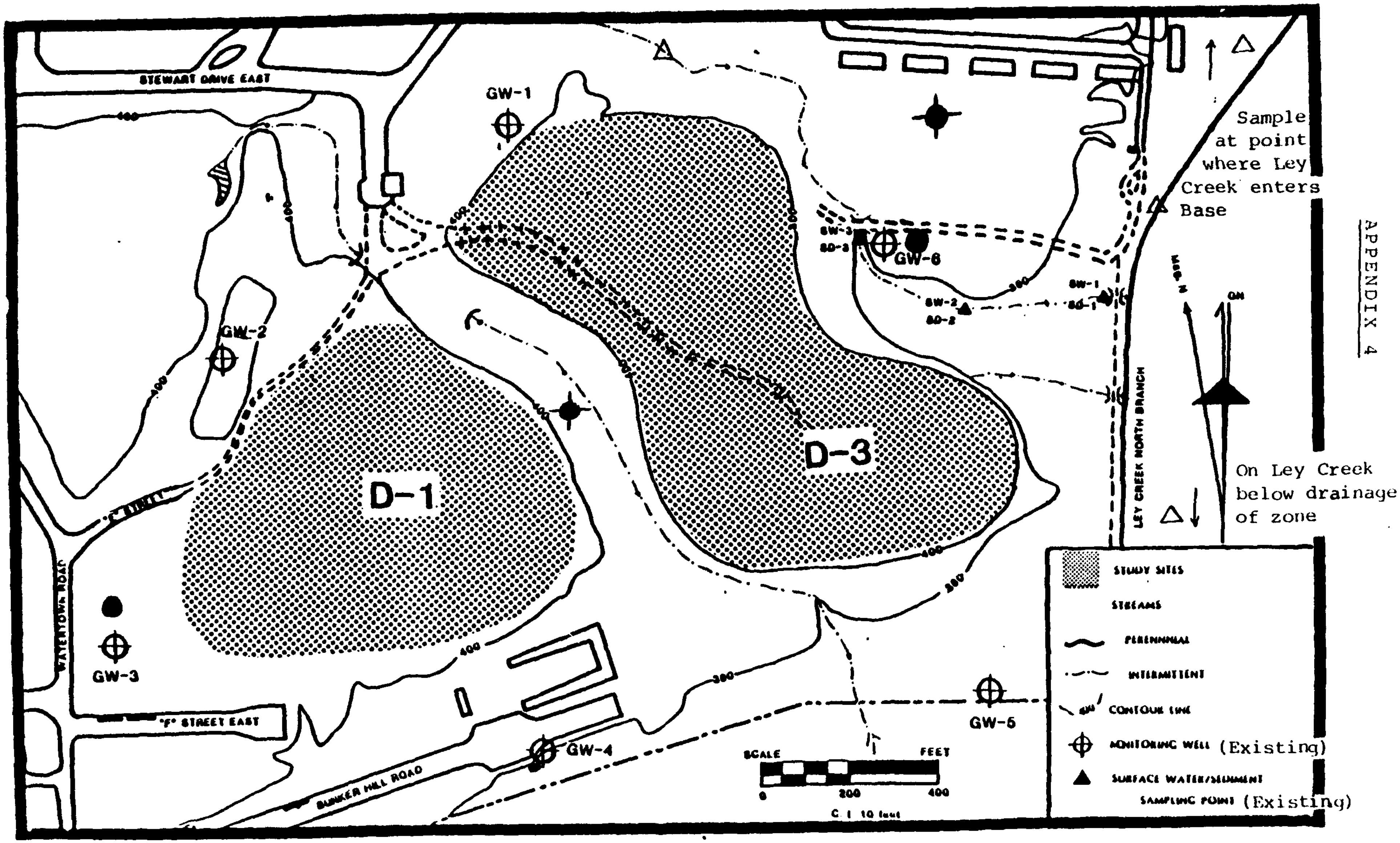


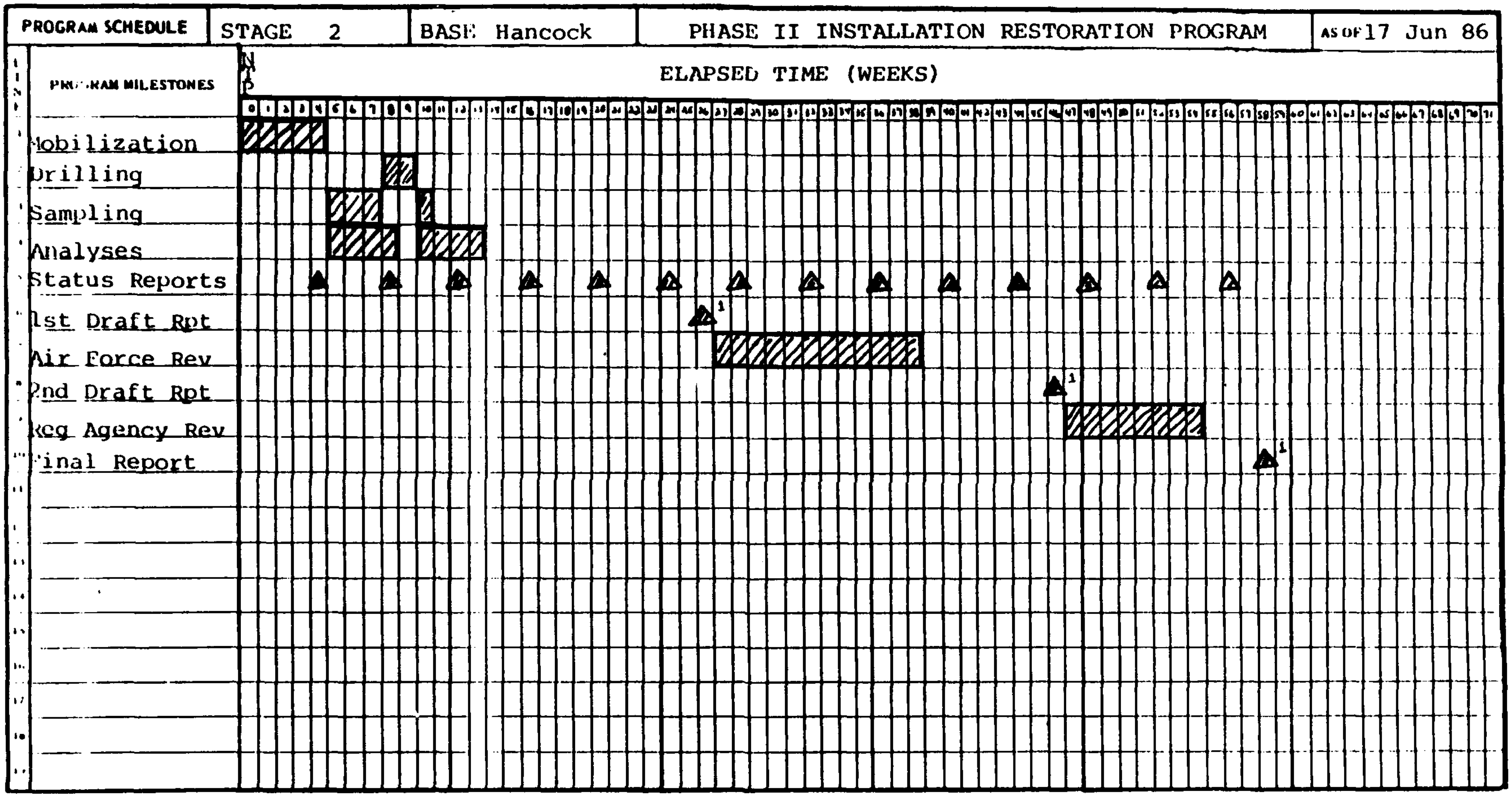
FIGURE 2-8. ZONE 2 SAMPLING POINT LOCATIONS

△ - Proposed surface water and sediment monitoring stations

- Proposed well pair

● - Proposed deep well

APPENDIX 5



Scheduled

Completed

Notes: 1. Advance copy due to technical program manager one week before scheduled delivery date.

SUMMARY OF MODIFICATIONS

Modification 1 -- The wrong statement of work was inadvertently published in the original contract. This modification substituted the correct version. (No change in contract ceiling)

Modification 2 -- Field conditions at Hancock ANGB necessitated a number of changes to the statement of work: (1) drilling method for deep wells, (2) well construction materials, (3) increase in number of field QC samples, (4) increase in the allowance for second column confirmation analyses, (5) deep well screening into the bedrock, (6) elimination of the magnetometry survey at site D-5, (7) installation of deep wells and well pairs in Zone 2, (8) abandonment of monitoring well MW-4, and (9) deletion of deep wells at D-5. (No change in the contract ceiling)

Modification 3 -- \$109,855 added to the delivery order to perform additional work at site FT-1 and conduct baseline risk assessments for all sites. (New contract ceiling: \$558,542)

Modification 4 -- Geological data and baseline risk assessment revealed that additional work was not necessary at site FT-1. This modification deleted sections of the SOW calling for further field work and analyses at site FT-1. A new Section VII was added to the delivery order specifying that analyses be performed on samples submitted from McEntire ANGB SC. (No change in the contract ceiling)

Variations Mod 1 -- Additional samples were collected from site D-5 and analyzed for thallium. Also, deliverable due-dates were changed to allow for this extended field effort. (No change in the contract ceiling)

APPENDIX C: WELL NUMBERING SYSTEM

APPENDIX C. WELL NUMBERING SYSTEM

Each well represents a groundwater monitoring station, which is reflected in the first two letters of the code (i.e., MW). The succeeding number in a well's code generally refers to the sequential order in which each well was installed. In the case of new deep wells, the number reflects the number of the shallow well it is paired with. The "D" designation that follows the well number refers to deep wells (i.e., wells screened in bedrock). All other wells are shallow. An example and explanation of a typical monitoring well designation is offered below:

MW-12D

MW = groundwater monitoring station
12 = well number; generally reflects the order in which a well was installed
D = deep well (i.e., well screened in bedrock).

APPENDIX D: WELL LOGS

WELL CONSTRUCTION SUMMARY

SAIC

BORING NO. MW -11

DEPTH DRILLED 30.0'

SCREENED FORMATION(S) Glacio Fluvial

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 400.0' GROUND ELEV. 396.7'

NORTH COORD. 1,131,520 EAST COORD. 629,940

STATIC WATER LEVEL 3.9'BLS

1-14-86/1522

DEVELOPMENT

DRILLING

DRILLER A. Utter Sr. RIG TYPE CME 75

START DATE 11/19/86 1400 END DATE 11/20/86 1115

BIT SCHEDULE Hollow Stem Auger 6" OD

DRILLING FLUIDS None

WATER ENCOUNTERED AT 5.0'BLS

CONSTRUCTION

CASING SCHEDULE 0.02" slot 2"ID 304 Stainless Steel Screen: (27.55'-6.30'BLS) 2"ID Sched. 80 PVC Riser (6.30'BLS-3.30'ALS) 4"ID Protective Steel Casing

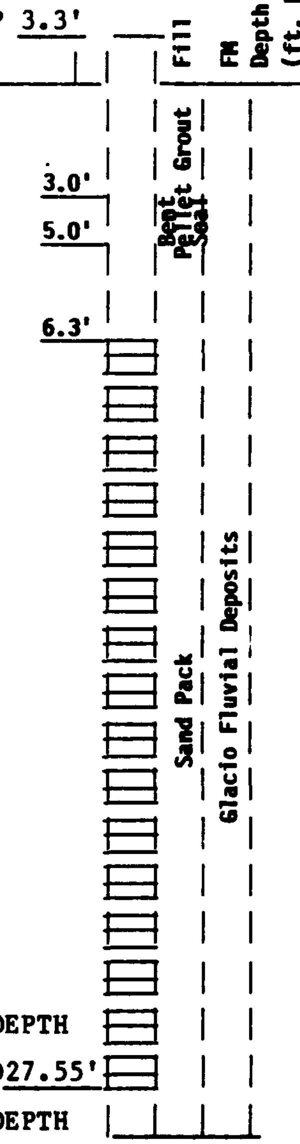
BACKFILL SCHEDULE 0 Grade Sand Pack: (30.0'-5.0'BLS) Bentonite Pellet Seal: (5.0'-3.0'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (3.0'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS Some problems with heaving sands

NOT TO SCALE

STICKUP 3.3'



TOTAL DEPTH CASED 27.55'

TOTAL DEPTH DRILLED 30.0'

FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
SS	4.75-6.75'	Top 1.7 olive brown (2.5Y4/4); silt and	BC = 3, 3, 2, 4
#1		clay; Bottom 0.3; (2.5Y4/4); fine sand, silt	Rec = 2.0'
		and clay med. dense; slightly plastic; wet.	
SS	9.75-	Light olive brown (2.5Y5/4); silt, trace to	BC = 1, 1, 2, 2
#2	16.75'	some clay; soft; slightly plastic; wet.	Rec = 2.0'
SS	14.75-	Top 1.2' light olive brown (2.5Y5/4); silt,	BC = 1, 2, 1, 2
#3	16.75'	some fine sand; Bottom 0.8 (2.5Y5/4); fine	Rec = 2.0'
		sand and silt; soft/loose; slightly plastic;	
		wet.	
SS	19.75-	Reddish brown (5Y4/3); fine to medium sand,	BC = 1, 1, 1/12
#4	21.75'	trace silt; loose; non-plastic; wet.	Rec = 1.0'
SS	24.75-	Gray brown (2.5Y4/3); fine to medium sand,	BC = 1, 2, 2, 2
#5	26.75'	loose, non-plastic; wet.	Rec = 1.5'
SS	29.75-	Gray brown (2.5Y4/3); fine to medium sand,	BC = 5, 5, 6, 7
#6	31.75'	trace silt; loose; non-plastic; wet.	Rec = 2.0'

CLIENT USAF OEHL PREPARED BY J. King

LOCATION Hancock Field SHEET 1 OF 1

PROJECT NO. 2-835-06-624-00 BORING NO. MW-11

WELL CONSTRUCTION SUMMARY

BORING NO. MW -12

DEPTH DRILLED 30.0'

SCREENED FORMATION(S) Glacio Fluvial

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 399.0' GROUND ELEV. 396.4'

NORTH COORD. 1,131,310 EAST COORD. 630,230

DRILLING

DRILLER A. Utter Sr. RIG TYPE CME 75

START DATE 11-20-86/1200 END DATE 11-20-86/1555

BIT SCHEDULE Hollow Stem Auger 6" OD

DRILLING FLUIDS None

WATER ENCOUNTERED AT 5.0'BLS

CONSTRUCTION

CASING SCHEDULE 0.02" slot 2"ID 304 Stainless Steel Screen: (28.82'-7.92'BLS) 2"ID Sched. 80 PVC Riser (7.92'BLS-2.60'ALS) 4"ID Protective Steel Casing

BACKFILL SCHEDULE 0 Grade Sand Pack: (30.0'-5.0'BLS) Bentonite Pellet Seal: (5.0'-3.0'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (3.0'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS None

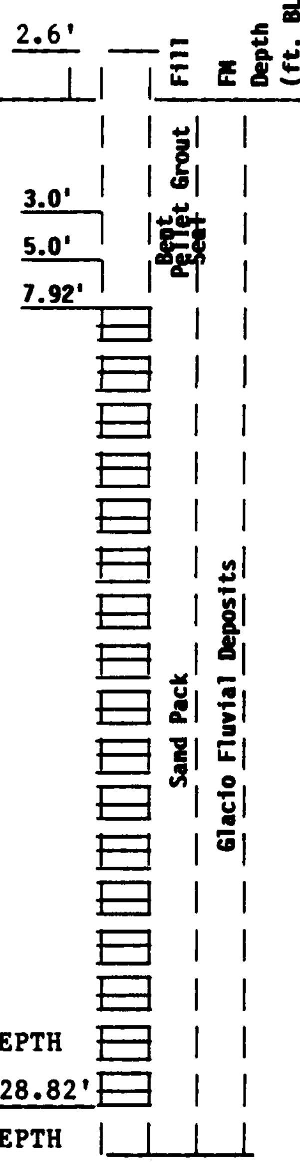
STATIC WATER LEVEL 6.07'BLS

1-14-87/1425

DEVELOPMENT

NOT TO SCALE

STICKUP 2.6'



TOTAL DEPTH CASED 28.82'

TOTAL DEPTH DRILLED 30.0'

FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
SS	5.0-7.0'	Dark yellowish brown (10YR4/6) clay, some	BC = 1/24
#1		silt, trace sand; soft; plastic, wet.	Rec = 1.8'
SS	10.0-12.0'	1.3' Dark yellowish brown (10YR4/6) clay,	BC = 3, 3, 3, 3
#2		some silt, trace sand; soft; plastic; wet.	Rec = 1.6'
		0.3' Dark yellowish brown (10YR4/6) very	
		fine sand and silt; loose; slighty plastic;	
		wet.	
SS	15.0-17.0'	1.1' Dusky red (2.5YR3/2) medium sand and	BC = 3, 3, 3, 3
#3		fine sand; loose; non-plastic; wet.	Rec = 1.3'
		0.2' Dusky red (2.5YR3/2) fine sand and	
		silt; loose; slightly plastic; wet.	
SS	20.0-22.0'	1.51' Dusky red (2.5YR3/2) fine to medium	BC = 2, 1, 1/12
#4		sand; loose, non-plastic; wet.	Rec = 1.6'
		0.09' Dusky red (2.5YR3/2) fine sand and	
		silt; loose; not plastic; wet.	
SS	25.0-27.0'	0.9' Reddish brown (5YR4/3) fine to medium	BC = 3, 3, 4/12
#5		sand, trace silt; loose; medium plastic;	Rec = 1.4'
		wet.	
		0.5' Reddish brown (5YR4/3) fine to medium	
		sand.	

CLIENT USAF OEHL PREPARED BY J. King

LOCATION Hancock Field SHEET 1 OF 1

PROJECT NO. 2-835-06-624-00 BORING NO. MW-12

WELL CONSTRUCTION SUMMARY

SAIC

BORING NO. MW-13

DEPTH DRILLED 30.0'

SCREENED FORMATION(S) Glacio Fluvial

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 398.8' GROUND ELEV. 396.3

NORTH COORD. 1,131,400 EAST COORD. 630,380

DRILLING

DRILLER A. Utter Sr. RIG TYPE CME 75

START DATE 11-21-86/0815 END DATE 11-21-86/1200

BIT SCHEDULE Hollow Stem Auger 6" OD

DRILLING FLUIDS None

WATER ENCOUNTERED AT 5.0'BLS

CONSTRUCTION

CASING SCHEDULE 0.02" slot 2"ID 304 Stainless Steel Screen: (28.40'-7.50'BLS) 2"ID Sched. 80 PVC Riser (7.50'BLS-2.50'ALS) 4"ID Protective Steel Casing

BACKFILL SCHEDULE 0 Grade Sand Pack: (30.0'-5.0'BLS) Bentonite Pellet Seal: (5.0'-3.0'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (3.0'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS None

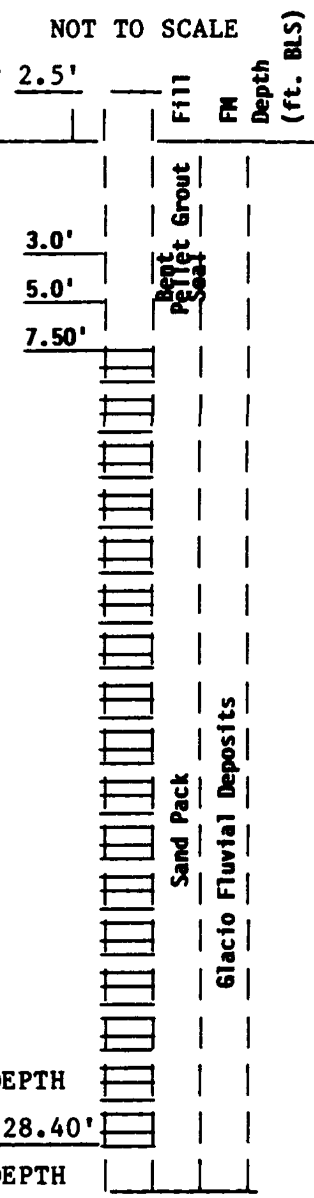
STATIC WATER LEVEL 6.45'BLS

1-14-87/1600

DEVELOPMENT

NOT TO SCALE

STICKUP 2.5'



TOTAL DEPTH CASED 28.40'

TOTAL DEPTH DRILLED 30.0'

FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
SS	4.8-6.8'	Olive brown (2.5Y5/4); clay, some silt;	BC = 2, 2, 2, 2
#1		soft; plastic; wet.	Rec = 1.8'
SS	9.8-11.8'	Olive brown (2.5Y5/4); silt, some clay;	BC = 3, 3, 2, 3
#2		soft; slightly plastic; wet.	Rec = 2.0'
SS	14.8-16.8'	0.4' Reddish brown (5YR4/3); medium to fine	BC = 1, 1, 2, 3
#3		sand; loose; non-plastic; wet.	Rec = 1.4'
		1.0; Dark reddish brown (5YR3/3); fine to	
		medium sand, some silt; loose; non-plastic;	
		wet.	
SS	19.8-21.8'	0.7' Reddish brown (5YR4/4); fine to medium	BC = 1, 2, 2, 3
#4		sand and silt; loose; mostly non-plastic;	Rec = 1.7'
		wet.	
		0.5' Dark gray (5YR4/1); medium to fine	
		sand; loose; non-plastic; wet.	
		0.5' Reddish brown (5YR4/4); fine to medium	
		sand and silt; loose; mostly non-plastic;	
		wet.	
SS	24.8-26.8'	0.5' Dark reddish gray (5YR4/2); fine sand,	BC = 2, 6, 4, 3
#5		some medium sand; loose; non-plastic; wet.	Rec = 1.7'
		0.7' Dark reddish gray (5YR4/2); clay, trace	
		silt; medium stiff; plastic; wet.	
		0.5' Dark reddish brown (5YR3/3); silt, some	
		fine sand, trace clay; medium stiff;	
		slightly plastic; wet.	

CLIENT USAF OEHL PREPARED BY J. King

LOCATION Hancock Field SHEET 1 OF 1

PROJECT NO. 2-835-06-624-00 BORING NO MW -13

WELL CONSTRUCTION SUMMARY

SAIC

BORING NO. MW -14

DEPTH DRILLED 28.5'

SCREENED FORMATION(S) Glacio Fluvial

PREPARED BY J. King

CLIENT U.S. Air Force

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 404.3' GROUND ELEV. 402.6'

NORTH COORD. 1,136,930 EAST COORD. 632,010

STATIC WATER LEVEL 7.61'BLS 1-16-87/1300

DEVELOPMENT

DRILLING

DRILLER D. Barrows RIG TYPE ATV CME 75

START DATE 12-9-86/0830 END DATE 12-10-86/1000

BIT SCHEDULE Hollow Stem Auger 6" OD

DRILLING FLUIDS None

WATER ENCOUNTERED AT 5.0'BLS

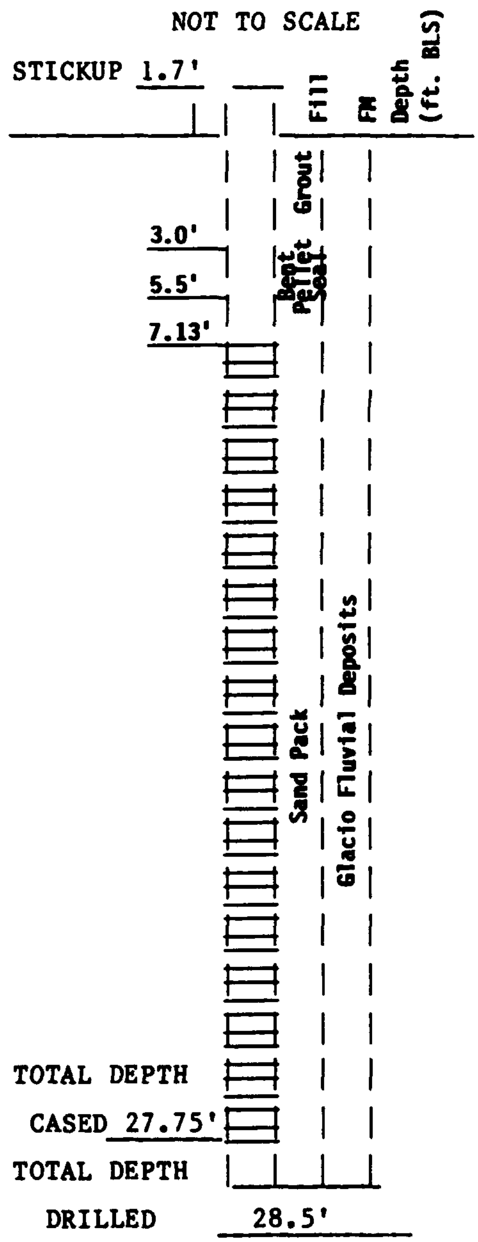
CONSTRUCTION

CASING SCHEDULE 0.02" slot 2"ID 304 Stainless Steel Screen: (27.75'-7.13'BLS) 2"ID Sched. 80 PVC Riser (7.13'BLS-1.7'ALS) 4"ID Protective Steel Casing

BACKFILL SCHEDULE 0 Grade Sand Pack: (28.5'-5.5'BLS) Bentonite Pellet Seal: (5.5'- 3.0'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (3.0'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS Drilling and installation were performed under adverse weather conditions.



FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
SS	4.0-6.0'	Clay and fine sand, some fine gravel	BC = 4, 6, 5, 3
#1			Rec = 0'
SS	9.0-11.0'	Dark Olive fine to coarse sand and silt,	BC = 5, 14, 15, 14
#2		some fine gravel; medium dense; slightly	Rec = 0.5'
		plastic; wet.	
SS	14.0-16.0'	Reddish sand, silt and clay, some fine	BC = 59, 68, 105
#3		gravel; very dense; non-plastic; wet.	Rec = 1.0'
SS	19.0-21.0'	Reddish sand, silt and clay, some fine	BC = 82, 25, 21, 28
#4		gravel; very dense; non-plastic; wet.	Rec = 1.0'

CLIENT USAF OEHL

PREPARED BY J. King

LOCATION Hancock Field

SHEET 1 OF 1

PROJECT NO. 2-835-06-624-00

BORING NO. MW-14

WELL CONSTRUCTION SUMMARY

BORING NO. MW-15

DEPTH DRILLED 28.0'

SCREENED FORMATION(S) Glacio Fluvial

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 400.4' GROUND ELEV. 398.0'

NORTH COORD. 1,137,710 EAST COORD. 632,850

DRILLING

DRILLER D. Barrows RIG TYPE ATV CME 75

START DATE 12-10-86/1145 END DATE 12-10-86/1420

BIT SCHEDULE Hollow Stem Auger 6" OD

DRILLING FLUIDS None

WATER ENCOUNTERED AT 5.0'BLS

CONSTRUCTION

CASING SCHEDULE 0.02" slot 2"ID 304 Stainless Steel Screen: (27.62'-7.0'BLS) 2"ID Sched. 80 PVC Riser (7.0'BLS-2.4'ALS) 4"ID Protective St l Casing

BACKFILL SCHEDULE 0 Grade Sand Pack: (28.0'-5.0'BLS) Bentonite Pellet Seal: (5.0'-3.0'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (3.0'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS None

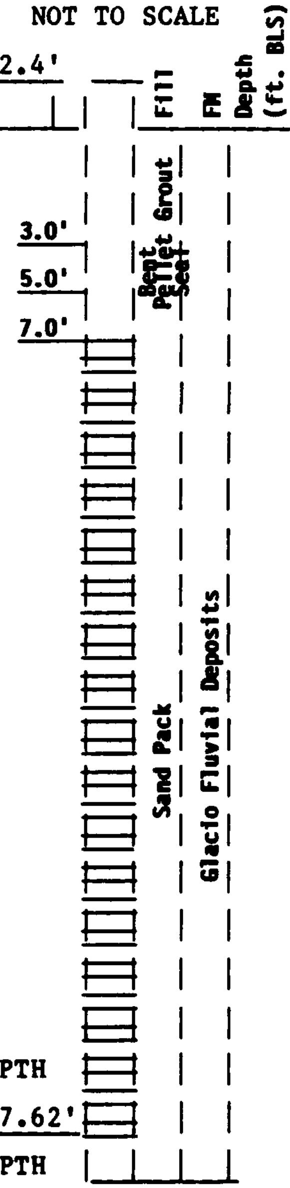
STATIC WATER LEVEL 5.55'BLS

1-15-87/161

DEVELOPMENT

NOT TO SCALE

STICKUP 2.4'



TOTAL DEPTH CASED 27.62'

TOTAL DEPTH DRILLED 28.0'BLS

FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
SS	4.7-6.7'	Reddish tan silt and clay; soft; plastic;	BC = 5, 4, 4, 5
#1		wet.	Rec = 1.2'
SS	9.7-11.7'	Reddish tan silt and clay; soft; plastic;	BC = 1, 1, 3, 2
#2		wet.	Rec = 1.0'
SS	14.7-16.7'	0.4' Same as above	BC = 10, 7, 6, 7
#3		0.6' Reddish brown fine sand and silt;	Rec = 1.0'
		loose; non-plastic; wet.	
SS	19.7-21.7'	Reddish brown fine to medium sand, some	BC = 5, 4, 4, 5
#4		silt, trace clay (in bands); loose; non-	Rec = 1.5'
		plastic; wet.	
SS	24.7-27.7'	Reddish brown fine to medium sand; some	BC = 3, 4, 4, 6
#5		silt; loose; non-plastic; wet.	Rec = 1.5'

CLIENT USAF OEHL

PREPARED BY J. King

LOCATION Hancock Field

SHEET 1 OF 1

PROJECT NO. 2-835-06-624-00

BORING NO. HW-15

WELL CONSTRUCTION SUMMARY

SAIC

BORING NO. MW -11D

DEPTH DRILLED 130.58

SCREENED FORMATION(S) Fractured Shale

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 399.1' GROUND ELEV. 396.6'

NORTH COORD. 1,131,510 EAST COORD. 629,940

DRILLING

DRILLER T. Crowell RIG TYPE Ingersol-Rand #TH-60

START DATE 12-1-86/1530 END DATE 12-4-86/1410

BIT SCHEDULE 8 1/2" ODEX

DRILLING FLUIDS Water and Air

WATER ENCOUNTERED AT 5.0'BLS

CONSTRUCTION

CASING SCHEDULE 0.02" slot 4"ID 304 Stainless Steel Screen: (130.0'-109.06'BLS) 4"ID Sched. 80 PVC Riser (109.06'BLS-2.5'ALS) 8"ID Protective Steel Casing

BACKFILL SCHEDULE 0 Grade Sand Pack: (130.58'-108.1' BLS) Bentonite Pellet Seal: (108.1'-102.4'BLS) Portland Cement-Bentonite Powder (19:1) Grout:(102.4'-0.0'BLS)

GEOPHYSICAL LOGS None

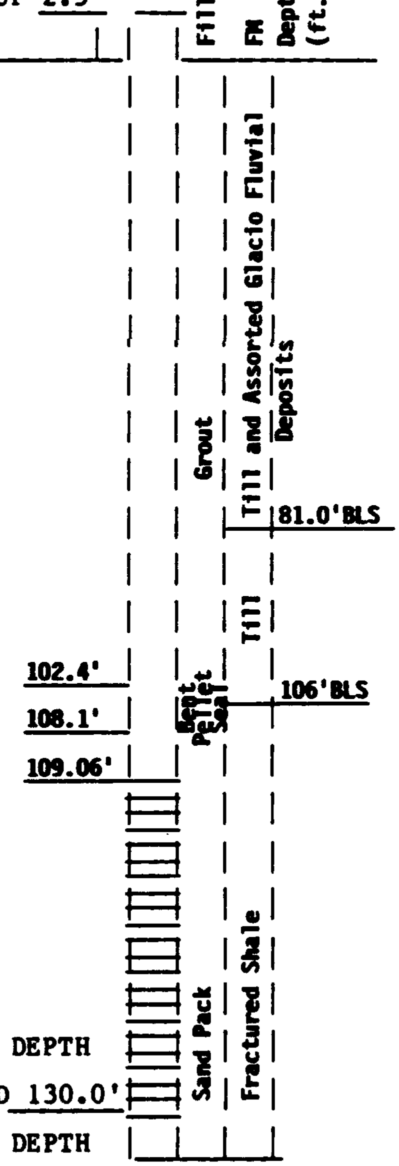
COMMENTS None

STATIC WATER LEVEL 1.3'ALS
1-14-87/1538

DEVELOPMENT

NOT TO SCALE

STICKUP 2.5'



TOTAL DEPTH CASED 130.0'

TOTAL DEPTH DRILLED 130.58'

FIELD LOG

SAIC

DEPTH (ft BLS)	DESCRIPTION	COMMENTS
0-20'	No cuttings	
21-41'	Fine sand and silt (loose; non-plastic; and	
	wet) Last 5' contained some gravel	
41-61'	Fairly stiff clay; some fine to coarse sand	
	and gravel (Reddish brown)	
61-81'	Same as above; Color changes to brown at	
	70'BLS	
81-101'	Stiff brown clay; varying amounts of fine	
	to medium sand and fine gravel (30%-25%)	
101-106'	Stiff red clay; trace fine gravel Dark gray	
	shale gravel increases at depth	
106-110'	Dark gray competent shale; trace gypsum	Bedrock encountered at
		106'BLS
110-119'	Dark gray to dark green shale cuttings	
119-126'	Dark gray shale; pyrite filling some	
	fractures	
126-130'	Light gray shale; becomes a green color at	
	129'BLS; trace dolomite; gypsum fracture	
	mineralization	

CLIENT USAF OEHL PREPARED BY J. King

LOCATION Hancock Field SHEET 1 OF 1

PROJECT NO. 2-835-06-624-00 BORING NO. MW 11D

WELL CONSTRUCTION SUMMARY

BORING NO. MW -12D

DEPTH DRILLED 125.4'

SCREENED FORMATION(S) Fractured Shale

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 399.3 GROUND ELEV. 396.6'

NORTH COORD. 1,131,310 EAST COORD. 630,240

STATIC WATER LEVEL 0.9'ALS 1-14-87/1435

DEVELOPMENT

DRILLING

DRILLER J. McCadden RIG TYPE Ingersol-Rand #TH-60

START DATE 12-5-86/0750 END DATE 12-10-86/1115

BIT SCHEDULE 8 1/2" ODEX
7 1/4"OD Button Bit used for bedrock

DRILLING FLUIDS Water and Air

WATER ENCOUNTERED AT 5.0'BLS

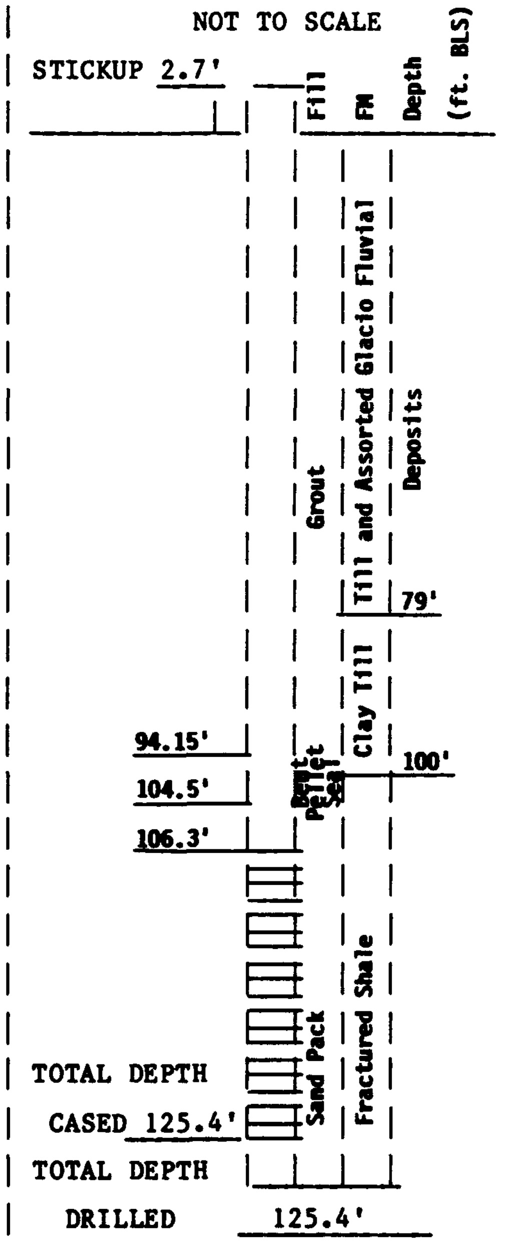
CONSTRUCTION

CASING SCHEDULE 0.02" slot 4"ID 304 Stainless Steel Screen: (125.4'-104.5'BLS) 4"ID Sched. 80 PVC Riser (104.5'BLS-2.7'ALS) 8"ID Protective Steel Casing

BACKFILL SCHEDULE 0 Grade Sand Pack: (125.4'-106.3' BLS) Bentonite Pellet Seal: (106.3'-94.15'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (94.15'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS None



FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
	0-17'	No cuttings	Fast drilling rate
	17-21'	Reddish silt and fine sand; some clay;	
		trace gravel	
	21-31'	Reddish slightly plastic silt; some fine	
		sand	
	31-32'	Silt and fine sand	
	33-38'	Assorted subangular to subrounded gravel;	
		some stiff clay and silt	
	38-44'	Same as above	
	44-48'	Assorted gravel; trace to some stiff clay	
	48-54'	Fine gravel; some stiff clay and silt	
	54-56'	Assorted gravel and stiff clay and silt	
	56-58'	Assorted coarse sand and silt; some clay and	
		gravel	
	58-66'	Fine gravel and stiff clay; trace silt	
		grading into very coarse sand; some gravel	

CLIENT USAF OEHL

PREPARED BY J. King

LOCATION Hancock Field

SHEET 1 OF 2

PROJECT NO. 2-835-06-624-00

BORING NO. MW -12D

FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
	66-67'	Sand; some gravel and stiff clay; trace silt	
	67-75'	Stiff clay; some medium to coarse sand; trace fine gravel	
	75-76'	Fine assorted gravel, coarse sand; fine sand and stiff clay	
	76-78'	Coarse sand; some stiff clay	
	78-79'	Coarse sand; trace gravel and clay	
	79-81'	Stiff brown clay; some sand; trace gravel	
	81-99'	Stiff clay; varying amounts of gravel and coarse sand (50%-<10%)	
	99-100'	Assorted gravel; some stiff clay	
	100-115'	Dark gray competent shale	Bedrock encountered at 100'BLS
	115-123'	Light gray/green shale; trace gypsum	

CLIENT USAF OEHL

PREPARED BY J. King

LOCATION Hancock Field

SHEET 2 OF 2

PROJECT NO. 2-835-06-624-00

BORING NO. MW-12D

WELL CONSTRUCTION SUMMARY

SAIC

BORING NO. MW-13D

DEPTH DRILLED 122.41'

SCREENED FORMATION(S) Fractured Shale

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 398.8' GROUND ELEV. 396.3'

NORTH COORD. 1,131,410 EAST COORD. 630,390

STATIC WATER LEVEL 1.55'ALS
1-14-87/1616

DEVELOPMENT

DRILLING

DRILLER J. McCadden RIG TYPE Ingersol-Rand #TH-60

START DATE 12-10-86/1310 END DATE 12-12-86/1215

BIT SCHEDULE 8 1/2"OD ODEX
7 1/4"OD Button Bit used for bedrock

DRILLING FLUIDS Water and Air

WATER ENCOUNTERED AT 5.0'BLS

CONSTRUCTION

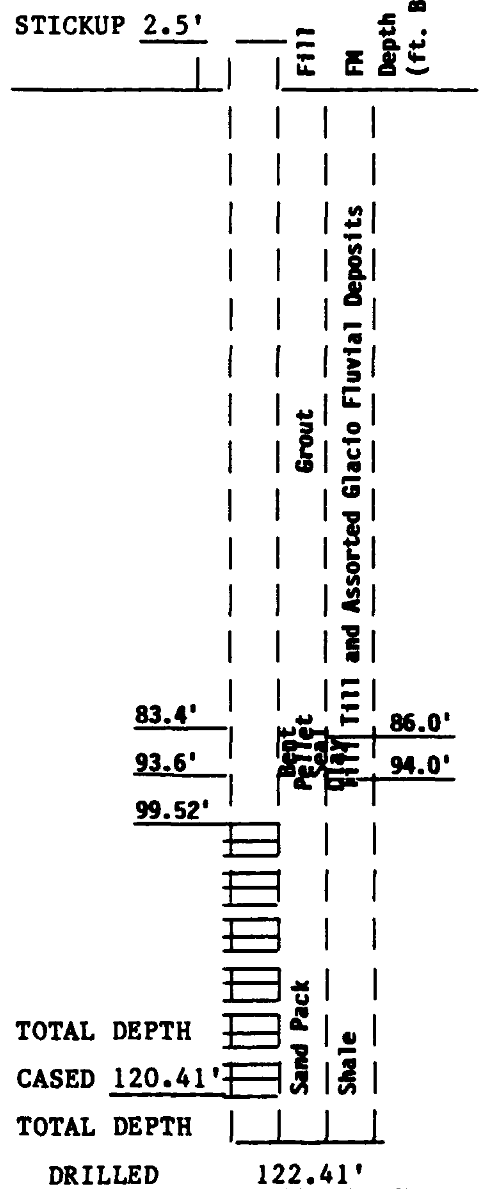
CASING SCHEDULE 0.02" slot 4"ID 304 Stainless Steel Screen: (120.41'-99.52'BLS) 4"ID Sched. 80 PVC Riser (99.52'BLS-2.5'ALS) 8"ID Protective Steel Casing

BACKFILL SCHEDULE 0 Grade Sand Pack: (122.41'-93.6' BLS) Bentonite Pellet Seal: (93.6'-83.4'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (83.4'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS None

NOT TO SCALE



FIELD LOG

DEPTH (ft BLS)	DESCRIPTION	COMMENTS
0-20'	Clay and silt; some fine sand	
20-25'	Very fine to fine sand and silt	
25-40'	Fine gravel and fine to coarse sand; trace silt and clay	
40-50'	Fine angular to subangular gravel, fine to coarse sand, silt and clay more fines toward bottom	
50-58'	Stiff clay; some fine to coarse sand and silt	
58-61'	Stiff clay and assorted gravel and coarse sand	
61-70'	Same as above	
70-73'	Assorted subrounded gravel; some coarse sand and clay	
73-77'	Stiff brown clay; some gravel and coarse sand	
77-79'	Coarse gravel (subangular); some stiff clay	
79-81'	Assorted coarse sand; trace clay	
81-82'	Red quartzite cuttings (very angular)	Quartzite Boulder

CLIENT USAF OEHL

PREPARED BY J. King

LOCATION Hancock Field

SHEET 1 OF 2

PROJECT NO. 2-835-06-624-00

BORING NO. MW-13D

FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
	91-94'	Stiff clay; some gray angular shale cuttings	
	94-96'	Dark gray competent shale; some dolomite	Bedrock encountered
			at 94'BLS
	96-100'	Light gray shale; trace gypsum as fracture	
		fillings	
	100-109'	Dark and light gray shale cuttings	
	109-122'	Small dark gray shale cuttings	

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

PREPARED BY J. King

SHEET 2 OF 2

BORING NO. MW-13D

SAIC

WELL CONSTRUCTION SUMMARY

BORING NO. MW-14D

DEPTH DRILLED 100.1

SCREENED FORMATION(S) Fractured Shale

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 404.3' GROUND ELEV. 402.7'

NORTH COORD. 1,136,930 EAST COORD. 632,000

STATIC WATER LEVEL 6.77'BLS 1-16-87/1220

DEVELOPMENT

DRILLING

DRILLER D. Burrows RIG TYPE ATV CME 75

START DATE 12-17-86/1145 END DATE 12-23-86/1215

BIT SCHEDULE 5" ODEX

DRILLING FLUIDS Compressed Air

WATER ENCOUNTERED AT 5.0'BLS

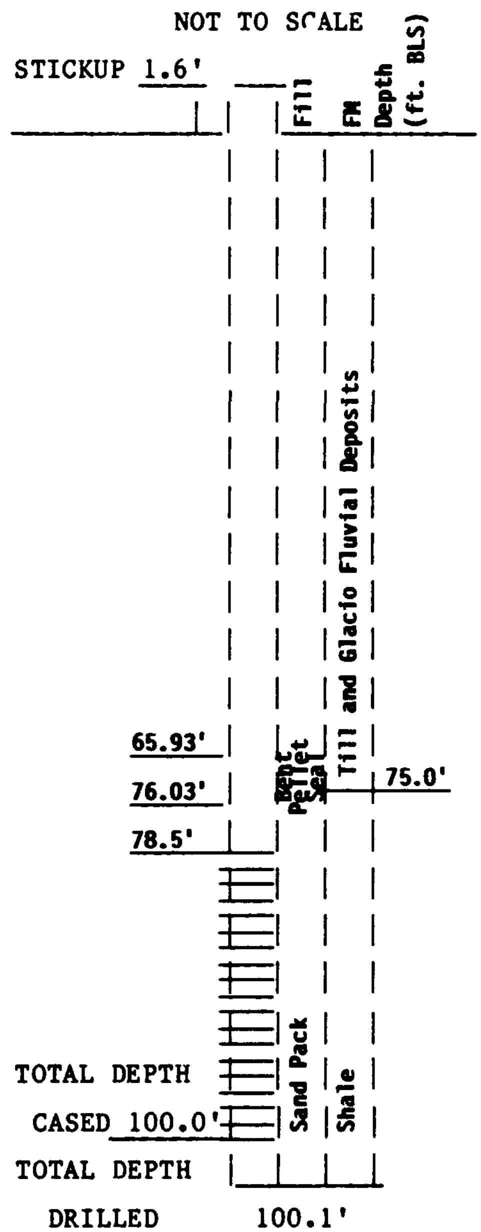
CONSTRUCTION

CASING SCHEDULE 0.02" slot 2"ID 304 Stainless Steel Screen: (100.0'-78.5'BLS) 2"ID Sched. 80 PVC Riser (78.5'BLS-1.6'ALS) 4"ID Protective Steel Casing

BACKFILL SCHEDULE 0 Grade Sand Pack: (100.1'-76.03' BLS) Bentonite Pellet Seal: (76.03'-65.93'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (65.93'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS Problems clearing hole during drilling. Considerable recirculation of cuttings.



FIELD LOG

SAIC

DEPTH (ft BLS)	DESCRIPTION	COMMENTS
0-3'	Chunks of concrete and red brick; trace black soil	
3-6'	Wood chips followed by wet black soil	Mild smell of decay
6-13'	Fine sand silt; some gravel	Black water coming out of hole
13-14'	Light brown stiff silt	
14-17'	Light brown fine sand and silt	
17-20'	Assorted subrounded gravel; some coarse sand	Large volumes of water being discharged from hole
20-22'	Coarse sand and gravel	
22-27'	Well sorted fine to medium sand	
27-32'	Same as above	
32-37'	More medium sand than fine sand; trace gravel	
37-39'	Assorted subrounded gravel	
39-42'	Fine sand; increasing amounts of silt with depth	

CLIENT USAF OEHL

PREPARED BY J. King

LOCATION Hancock Field

SHEET 1 OF 2

PROJECT NO. 2-835-06-624-00

BORING NO. MW-14D

FIELD LOG

DEPTH (ft BLS)	DESCRIPTION	COMMENTS
42-45'	Gray silt and fine sand	
45-47'	Fine to medium sand; trace gravel	
47-52'	Coarse sand; some gravel	
52-57'	Alternating beds of coarse sand and sub-rounded gravel; some fine sand and silt	
57-59'	Subrounded assorted gravel	
59-62'	Assorted gravel and coarse sand (thin gravel rich layers)	
62-67'	Assorted gravel and coarse sand; some medium to fine sand and silt	Problems clearing hole of all cuttings and water. Considerable recirculation of cuttings
67-69'	Assorted subrounded gravel	Same as above
69-75'	Same as above; some angular cuttings of red shale	
75-82'	Incompetent bedrock (red shale) at 75'BLS; few cutting	Change in drilling rate at 75'BLS; Large Volumes of water being discharged
82-100'	Few cuttings of red shale	Water red in color and jetting from borehole

CLIENT USAF OEHL PREPARED BY J. King

LOCATION Hancock Field SHEET 2 OF 2

PROJECT NO. 2-835-06-624-00 BORING NO. MW-14D

WELL CONSTRUCTION SUMMARY

SAIC

BORING NO. MW-15D

DEPTH DRILLED 144.00'

SCREENED FORMATION(S) Fractured Shale

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 399.8' GROUND ELEV. 397.7'

NORTH COORD. 1,137,670 EAST COORD. 632,790

STATIC WATER LEVEL 4.18'BLS

1-15-87/1540

DEVELOPMENT

DRILLING

DRILLER J. McCadden RIG TYPE Ingersol-Rand #TH-60

START DATE 1-8-87/0830 END DATE 1-9-87/1520

BIT SCHEDULE 8 1/2" ODEX

7 1/4"OD Carbide Button Bit for Bedrock

DRILLING FLUIDS Water and Air

WATER ENCOUNTERED AT 5.0'BLS

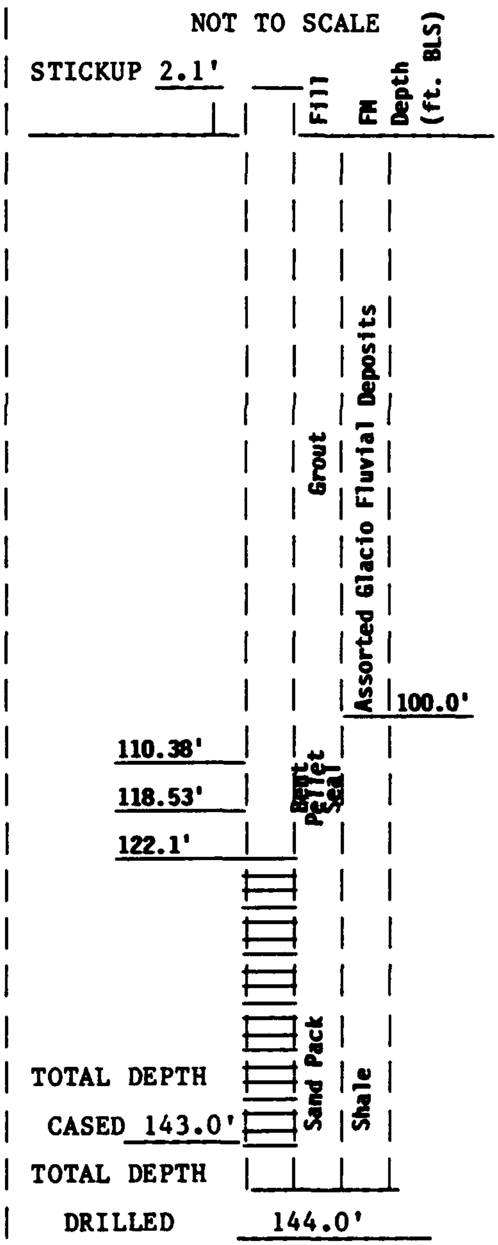
CONSTRUCTION

CASING SCHEDULE 0.02" slot 4"ID 304 Stainless Steel Screen: (143.0'-122.1'BLS) 4"ID Sched. 80 PVC Riser (122.1'BLS-2.1'ALS) 8"ID Protective Steel Casing

BACKFILL SCHEDULE 0 Grade Sand Pack: (144.0'-188.53' BLS) Bentonite Pellet Seal: (118.53'-110.38'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (110.38'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS None



FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
	0-20'	Dark brown fine sand and silt; dry	
	20-24'	Dark brown silt and fine sand; wet	
	24-29'	Assorted gravel	
	29-34'	Dark brown silt and clay; some gravel	
	34-41'	Alternating layer of fine sand and gravel	
		with layers of silt, fine sand and gravel;	
		some fine gravel	
	41-44'	Fine assorted gravel; some coarse sand	Gravel is subrounded
	44-64'	Reddish silt and fine sand; some clay,	Gravel more abundant
		coarse sand; trace gravel	between 44'-48'
	64-69'	Brown fine to coarse sand; some silt	
	69-70'	Coarse sand and gravel (subrounded); some	
		fine sand and silt	
	70-72'	Very stiff reddish brown silt and coarse	
		sand and gravel	
	72-79'	Very stiff and clay and assorted subrounded	
		gravel	

CLIENT USAF OEHL PREPARED BY J. King

LOCATION Hancock Field SHEET 1 OF 3

PROJECT NO. 2-835-06-624-00 BORING NO. MW-15D

FIELD LOG

SAIC

DEPTH (ft BLS)	DESCRIPTION	COMMENTS
79-82'	Same as above except for increasing amounts of gravel and coarse sand	
82-84'	Subrounded gravel and coarse sand; some stiff clay with trace silt	
84-92'	Assorted gravel (subrounded to subangular) and coarse sand. Red subangular clasts of shale comprise trace portion of gravel	
92-94'	Reddish soft clay and sand sized shale cuttings; some sand and gravel	
94-104'	Red shale cuttings and clay	Incompetent bedrock penetrated at 100'BLS
104-114'	Sand sized cuttings of red shale; some green shale and reddish soft clay	Shale soft and friable
114-119'	Sand sized cuttings of red shale; trace clay	Shale becomming harder
119-122'	Gravel sized cuttings of competent red shale	
122-127'	Gravel to sand sized cuttings of green shale	Some soft spots encountered
127-137'	Large cuttings of red shale	
137-138'	Green shale	

CLIENT USAF OEHL

PREPARED BY J. King

LOCATION Hancock Field

SHEET 2 OF 3

PROJECT NO. 2-835-06-624-00

BORING NO. MW J-15D

FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
	138-141'	Large cuttings of red shale	
	141-144'	Large cuttings of competent red shale	

CLIENT USAF OEHL

PREPARED BY J. King

LOCATION Hancock Field

SHEET 3 OF 3

PROJECT NO. 2-835-06-624-00

BORING NO. MW-15D

WELL CONSTRUCTION SUMMARY

SAIC

BORING NO. MW-3D

DEPTH DRILLED 95.83'

SCREENED FORMATION(S) Fractured Shale

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 407.0' GROUND ELEV. 404.9'

NORTH COORD. 1,136,480 EAST COORD. 631,010

STATIC WATER LEVEL 7.6'BLS 1-15-87/1655

DEVELOPMENT

DRILLING

DRILLER J. McCadden RIG TYPE Ingersol-Rand #TH-60

START DATE 12-15-86/0756 END DATE 12-16-86/1600

BIT SCHEDULE 8 1/2"ODEX

7 1/4"OD Button Bit used in Bedrock

DRILLING FLUIDS Water and Air

WATER ENCOUNTERED AT 5.0'BLS

CONSTRUCTION

CASING SCHEDULE 0.02" slot 4"ID 304 Stainless Steel Screen: (95.0'-74.07'BLS) 4"ID Sched. 80 PVC Riser (74.07'BLS-2.1'ALS) 8"ID Protective Steel Casing

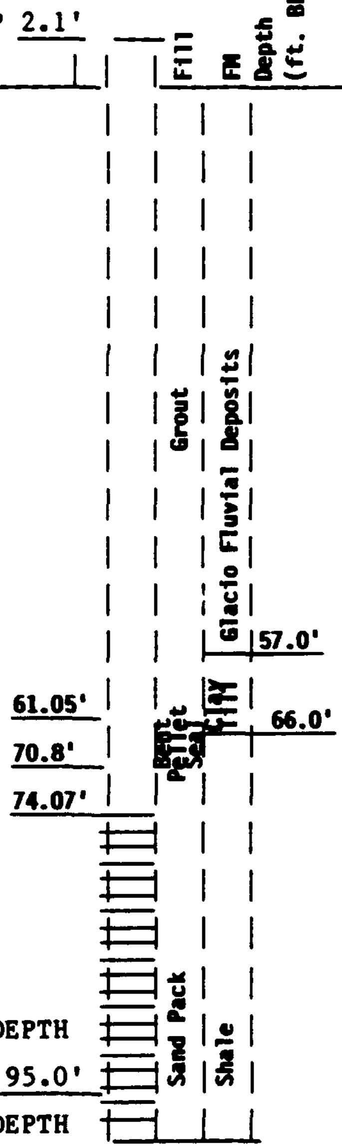
BACKFILL SCHEDULE 0 Grade Sand Pack: (95.83'-70.8' BLS) Bentonite Pellet Seal: (70.8'-61.05'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (61.05'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS None

NOT TO SCALE

STICKUP 2.1'



TOTAL DEPTH CASED 95.0'

TOTAL DEPTH DRILLED 95.83'

FIELD LOG

SAIC

DEPTH (ft BLS)	DESCRIPTION	COMMENTS
0-7'	No cutting	
7-10'	Assorted rounded to subrounded gravel	
10-21'	Assorted rounded to subrounded gravel and coarse sand; some silt and fine sand	
22-26'	Assorted gravel; some coarse sand	
27-37'	Same as above; lesser amounts of coarse sand	
37-41'	Same as above; subangular to angular coarse sand	
41-47'	Well sorted rounded to subrounded gravel	
47-56'	Same as above; some coarse sand	
56-57'	Fine well sorted sand; no gravel tan in color	
57-59'	Very stiff red clay; some gravel	Drilling rate slowed
59-60'	Stiff gray clay and coarse sand; some crumbly gravel	
60-66'	Stiff gray clay and greenish-gray soft shale gravel	
66-71'	Greenish-gray incompetent shale bedrock; some gray dolomite; trace gray clay	

CLIENT USAF OEHL PREPARED BY J. King

LOCATION Hancock Field SHEET 1 OF 2

PROJECT NO. 2-835-06-624-00 BORING NO. MW-3D

FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
	71-77'	Same as above	
	77-81'	More competent gray, green and red shale cuttings	
	81-88'	Finer cuttings of red shale; some green and gray shale	
	88-89'	Mostly red shale; trace gypsum and dolomite	
	89-96'	Competent red shale cuttings; trace green shale	

CLIENT USAF OEHL

PREPARED BY J. King

LOCATION Hancock Field

SHEET 2 OF 2

PROJECT NO. 2-835-06-624-00

BORING NO. MW-3D

WELL CONSTRUCTION SUMMARY

SAIC

BORING NO. MW-6D

DEPTH DRILLED 131.02'

SCREENED FORMATION(S) Fractured Shale

PREPARED BY J. King

CLIENT USAF OEHL

LOCATION Hancock Field

PROJECT NO. 2-835-06-624-00

TOP OF CASING ELEV. 396.7' GROUND ELEV. 395.2'

NORTH COORD. 1,137,500 EAST COORD. 632,740

STATIC WATER LEVEL 1.07'BLS

1-16-87/1250

DEVELOPMENT

DRILLING

DRILLER J. McCadden RIG TYPE Ingersol-Rand #TH-60

START DATE 1-5-87/0900 END DATE 1-7-87/1130

BIT SCHEDULE 8 1/2" ODEX

DRILLING FLUIDS Water and Air

WATER ENCOUNTERED AT 5.0'BLS

CONSTRUCTION

CASING SCHEDULE 0.02" slot 4"ID 304 Stainless Steel Screen: (131.02'-110.08'BLS) 4"ID Sched. 80 PVC Riser (110.08'BLS-1.5'ALS) 8"ID Protective Steel Casing

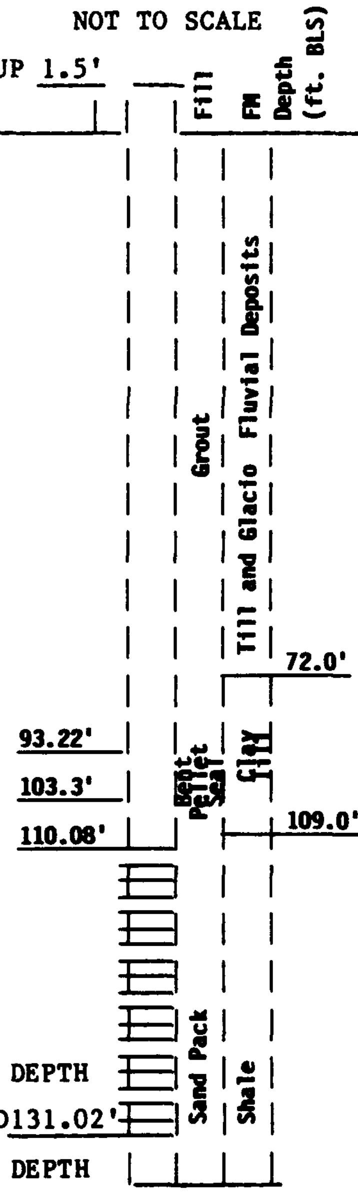
BACKFILL SCHEDULE 0 Grade Sand Pack: (131.02'-103.3' BLS) Bentonite Pellet Seal: (103.3'-93.22'BLS) Portland Cement-Bentonite Powder (19:1) Grout: (93.22'-0.0'BLS)

GEOPHYSICAL LOGS None

COMMENTS None

NOT TO SCALE

STICKUP 1.5'



TOTAL DEPTH CASED 131.02'

TOTAL DEPTH DRILLED 131.02'

FIELD LOG

DEPTH (ft BLS)	DESCRIPTION	COMMENTS
0-25'	Dark Brown sandy to silty dry soil; Bottom 5' is wet.	
25-35'	Reddish brown fine sand and silt; some clay	
35-43'	Same as above except for trace gravel	
43-45'	Same as above except for increasing amounts of gravel	
45-53'	Subrounded assorted gravel; some sand and silt	
53-61'	Stiff brown clay and gravel	
61-65'	Silt; some fine sand and clay	
65-67'	Fine sand and silt (grayish tint)	
67-70'	Stiff grayish-brown clay and assorted gravel	
70-72'	Assorted subrounded to subangular gravel; trace clay	
72-83'	Reddish brown very stiff clay and gravel. Some layers contain more garvel than others. Gravel can become fine.	
83-85'	Deep reddish stiff clay and red shale cuttings. Boulder of quartzite penetrated at 83'BLS	

CLIENT USAF OEHL PREPARED BY J. King

LOCATION Hancock Field SHEET 1 OF 2

PROJECT NO. 2-835-06-624-00 BORING NO. MW-6D

FIELD LOG

SAIC

	DEPTH (ft BLS)	DESCRIPTION	COMMENTS
	85-105'	Stiff red clay and friable red shale cuttings	
	105-125'	Incompetent red shale bedrock encountered at 109'BLS. Soft red clay mixed with crumbly shale cuttings. Some green shale; trace gypsum and dolomite	
	125-134'	Red shale becoming more competent; red clay less abundant; green shale cuttings in trace amounts	

CLIENT USAF OEHL

PREPARED BY J. King

LOCATION Hancock Field

SHEET 2 OF 2

PROJECT NO. 2-835-06-624-00

BORING NO. MW-6D

WELL CONSTRUCTION SUMMARY

SAIC

BORING NO. MW-16
DEPTH DRILLED 28'
SCREENED
FORMATION(S) Glacio Fluvial
PERPARED BY P. Spooner
CLIENT USAF OEHL
LOCATION Hancock Field, New York
PROJECT NO. 1-827-06-624-XX
TOP OF CASING ELEV. 398.7' GROUND ELEV. 395.7'
NORTH COORD. 1,131,590 EAST CORD. 629,110
DRILLING
DRILLER M. Walters RIG TYPE CME-55
START DATE 10/13/87 END DATE 10/13/87
BIT SCHEDULE Hollow stem auger 6" OD

DRILLING FLUIDS None

WATER ENCOUNTERED AT 8' BLS

CONSTRUCTION
CASING SCHEDULE 0.02" slot, 2" ID 304 Stainless Steel Screen. (29.2'-8.9' BLS) 2" ID Sked. 80 PVC Riser (8.9' BLS - 3.0' ALS) 4" ID Protective Steel Casing

BACKFILL SCHEDULE 0 Grade Sand Pack: (29.2'-6.3' BLS) Bentonite Pellet Seal: (6.9'-1.9'BLS) Concrete Pad to 3.0' ALS

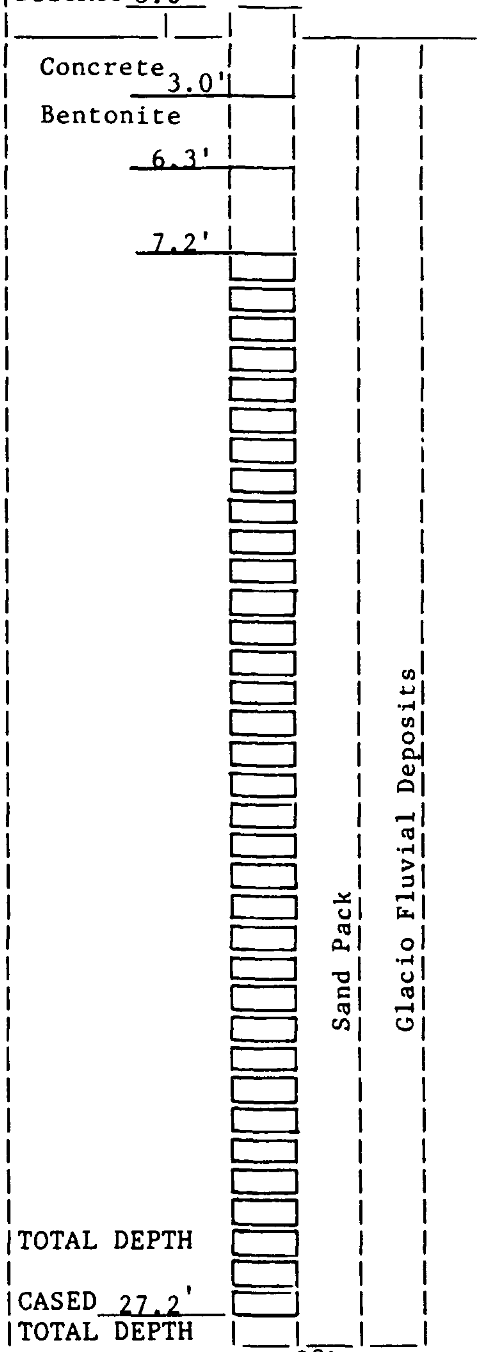
GEOPHYSICAL LOGS None

COMMENTS Some problems with heaving sand

STATIC WATER LEVEL 5.81' BLS
10/20/87 1123
DEVELOPMENT Pumped 150 Gal.

NOT TO SCALE

STICKUP 3.0'



TOTAL DEPTH CASED 27.2'
TOTAL DEPTH DRILLED 28'

SAIC

FIELD LOG

	DEPTH (FT bls)	DESCRIPTION	COMMENTS
		Dark Brown fine silty sand; wet,	
		some gravel.	
SS	5'-7'	Yellow Brown (10yr5/6) and gray	N = 4,8,4,3
#1		clayey sand, moist, firm (0.4'),	REC= 1.0'
		gray brown (10yr5/3) silty sand,	
		moist, firm (0.6')	
		Few cuttings, water at 8' BLS	
SS	10'-12'	Gray (N5/0) silty clay, wet,	N = 2,1,1,1
#2		plastic, sticky	REC = 1.4'
SS	15'-17'	Gray (N5/0) silty clay, wet,	N = 1,1,2,2
#3		plastic, sticky	REC = 1.4'
SS	20'-22'	Gray (N5/0) silty clay, wet,	N = 0,1,2,3
#4		plastic, sticky	REC = 1.4'
SS	25'-27'	Brown(7.5yr5/2) very fine silty	N = 0,0,1,2
#5		sand, wet	REC = 0.85'

CLIENT USAF OEHL PREPARED BY P. Spooner

LOCATION Hancock Field, NY SHEET 1 OF 1

PROJECT 1-827-06-624-XX BORING NO. MW-16

WELL CONSTRUCTION SUMMARY

SAIC

BORING NO. MW-17
DEPTH DRILLED 28'
SCREENED
FORMATION(S) Glacio Fluvial
PERPARED BY P. Spooner
CLIENT USAF OEHL
LOCATION Hancock Field, New York
PROJECT NO. 1-827-06-624-XX
TOP OF CASING ELEV. 398.2' GROUND ELEV. 395.6'
NORTH COORD. 1,131,620 EAST CORD. 629,340
DRILLING
DRILLER M. Walters RIG TYPE CME-55
START DATE 10/14/89 END DATE 10/15/89
BIT SCHEDULE Hollow Stem Auger 6" OD

DRILLING FLUIDS None

WATER ENCOUNTERED AT 8' BLS

CONSTRUCTION
CASING SCHEDULE 0.02" slot 2" ID 304 Stainless Steel Screen: (27.97'-7.97' BLS) 2" Sked. 80 PVC Riser (7.97' BLS - 2.6' ALS). 4" Protective Steel Casing

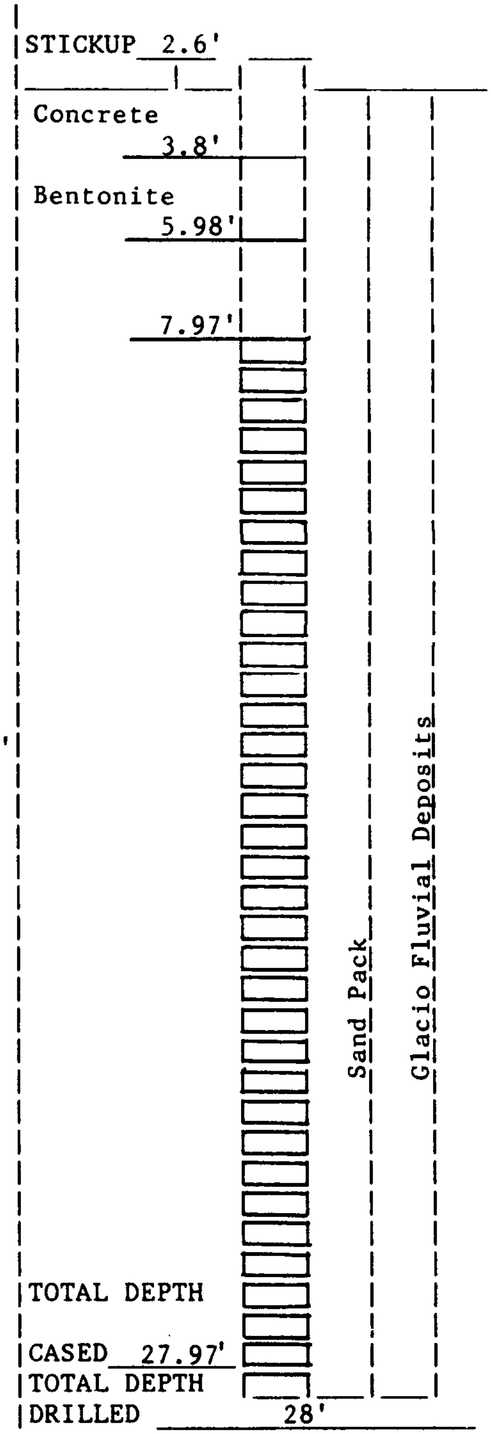
BACKFILL SCHEDULE 0 Grade Sand Pack (27.97' - 5.98' BLS) Bentonite Seal (5.98'-3.8' BLS) Concrete Pad to 0.3' ALS

GEOPHYSICAL LOGS None

COMMENTS

STATIC WATER LEVEL 3.4' BLS
10/20/87 1115
DEVELOPMENT Pumped 200 Gal.

NOT TO SCALE



SAIC

FIELD LOG

	DEPTH (FT bls)	DESCRIPTION	COMMENTS
		Dark brown loamy fine sand	
		gravel, cobbles	
SS	5'-7'	Red brown (5yr5/3) and gray (N5/0)	N= 12,5,5,8
#1		fine clayey sand, firm, moist	REC = 1.05'
	8'	Encountered water	
SS	10'-12'	Gray-brown (10yr5/2)	N= 1,2,2,3
#2		Silty clay, wet, plastic, sticky	REC= 1.35'
SS	15'-17'	Gray-brown (10yr5/2) silty clay,	N= 1,2,2,2
#3		wet, plastic, sticky	REC= 1.75'
SS	20'-22'	Gray (N5/0) medium sand (0.7')	N= 2,1,2,3
#4		trace silt. Gray-brown (10yr5/2)	REC= 2.0'
		silty clay, wet, plastic (1.3')	
SS	25'-27'	Gray-brown(10yr5/2) fine silty	N= 1,4,3,3
#5		sand, wet, loose.	REC= 2.0'

CLIENT USAF OEHL PREPARED BY P. Spooner

LOCATION Hancock Field SHEET 1 OF 1

PROJECT 1-827-06-624-XX BORING NO. MW-17

WELL CONSTRUCTION SUMMARY

BORING NO. MW-18
DEPTH DRILLED 28'
SCREENED
FORMATION(S) Glacio Fluvial
PERPARED BY P. Spooner
CLIENT USAF OEHL
LOCATION Hancock Field, New York
PROJECT NO. 1-827-06-624-XX
TOP OF CASING ELEV. 398.1' GROUND ELEV. 395.9'
NORTH COORD. 1,131,530 EAST CORD. 629,300
DRILLING
DRILLER M. Walters RIG TYPE CME - 55
START DATE 10/15/89 END DATE 10/15/89
BIT SCHEDULE Hollow Stem Auger 6" OD

DRILLING FLUIDS None

WATER ENCOUNTERED AT 12' BLS

CONSTRUCTION
CASING SCHEDULE 0.02" Slot 2" ID 304 Stainless Steel Screen (27.8'-7.8' BLS) 2" Sked. 80 PVC Riser (7.8' BLS - 2.2' ALS) 4" Protective Steel Casing

BACKFILL SCHEDULE 0 Grade Sand Pack (28'-6.2' BLS) Bentonite Seal (6.2'-3.0') Concrete Pad to 0.3' ALS

GEOPHYSICAL LOGS None

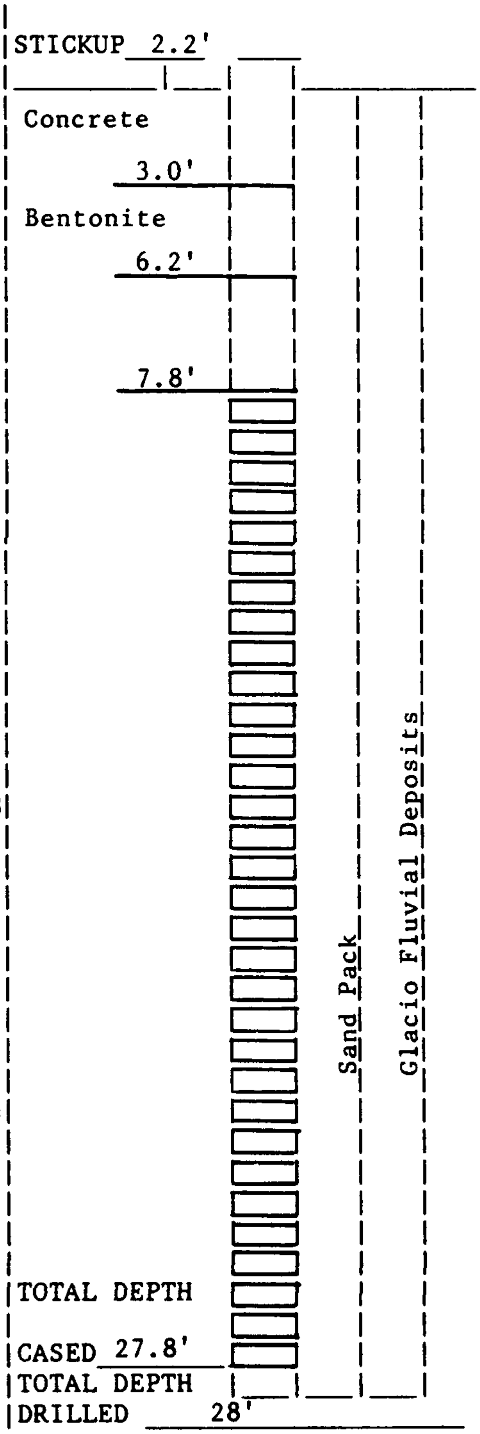
COMMENTS Fuel oil odor noted 4'-5' BLS - no visable evidence

SAIC

STATIC WATER LEVEL 4.03' BLS

DEVELOPMENT Pumped 175 Gal.

NOT TO SCALE



SAIC

FIELD LOG

	DEPTH (FT bls)	DESCRIPTION	COMMENTS
		Dark reddish-gray silt loam,	
		gravel, cobbles	
SS	5'-7'	Reddish-brown (5yr5/3)	N= 3,3,2,2
#1		fine sand and silt. Fuel oil odor	REC= 0.95'
SS	10'-12'	Gray-brown (10yr5/2) silty clay	N= 1,1,1,3
#2		with fine sand stringers	REC= 1.5'
		Water at 12' BLS	
SS	15'-17'	Gray-brown (10yr5/2) silty clay,	N= 0,1,1,3
#3		wet, plastic	REC= 1.4'
SS	20'-22'	Gray-brown (10yr5/2) silty sand,	N= 2,1,3,2
#4		loose	REC= 1.5'
SS	25'-27'	Gray-brown (10yr5/2) silty sand,	N= 0,1,0,0
#5		loose	REC= 0.7'

CLIENT USAF OEHL PREPARED BY P. Spooner

LOCATION Hancock Field SHEET 1 OF 1

PROJECT 1-827-06-624-XX BORING NO. MW-18

SLUG TEST RESULTS

APPENDIX E: FIELD RAW DATA

SE1000B
Environmental Logger
10/23 17:27

Unit# 00000 Test# 0

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 50.12
Offset 0.00

Step# 0 09/27 10:18

Elapsed Time	Value
0.0000	- 3.96
0.0033	- 3.94
0.0066	- 3.81
0.0099	- 3.66
0.0133	- 3.56
0.0166	- 3.48
0.0200	- 3.54
0.0233	- 3.58
0.0266	- 3.58
0.0300	- 3.51
0.0333	- 3.43
0.0500	- 3.37
0.0666	- 3.29
0.0833	- 3.23
0.1000	- 3.18
0.1166	- 3.12
0.1333	- 3.07
0.1500	- 3.02
0.1666	- 2.97
0.1833	- 2.93
0.2000	- 2.88
0.2166	- 2.83
0.2333	- 2.80
0.2500	- 2.75
0.2666	- 2.72
0.2833	- 2.69
0.3000	- 2.64
0.3166	- 2.61
0.3333	- 2.58
0.4167	- 2.40
0.5000	- 2.26
0.5833	- 2.12
0.6667	- 1.99
0.7500	- 1.86
0.8333	- 1.75
0.9167	- 1.66
1.0000	- 1.56
1.0833	- 1.47
1.1667	- 1.39
1.2500	- 1.31
1.3333	- 1.25
1.4166	- 1.18
1.5000	- 1.12

1.5833	-	1.06
1.6667	-	0.99
1.7500	-	0.95
1.8333	-	0.90
1.9167	-	0.85
2.0000	-	0.80
2.5000	-	0.60
3.0000	-	0.45
3.5000	-	0.34
4.0000	-	0.26
4.5000	-	0.20
5.0000	-	0.14
5.5000	-	0.11
6.0000	-	0.07
6.5000	-	0.06
7.0000	-	0.03
7.5000	-	0.01
8.0000		0.00
8.5000		0.00
9.0000		0.00
9.5000		0.01
10.0000		0.01

END

SE1000B
Environmental Logger
10/23 17:30

Unit# 00000 Test# 0

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	50.12
Offset	0.00

Step# 1 09/27 10:30

Elapsed Time	Value
0.0000	- 4.02
0.0033	- 3.89
0.0066	- 3.72
0.0099	- 3.61
0.0133	- 3.72
0.0166	- 3.72
0.0200	- 3.69
0.0233	- 3.61
0.0266	- 3.56
0.0300	- 3.53
0.0333	- 3.54
0.0500	- 3.45
0.0666	- 3.39
0.0833	- 3.32
0.1000	- 3.27
0.1166	- 3.23
0.1333	- 3.18
0.1500	- 3.13
0.1666	- 3.08
0.1833	- 3.04
0.2000	- 3.01
0.2166	- 2.96
0.2333	- 2.93
0.2500	- 2.88
0.2666	- 2.85
0.2833	- 2.82
0.3000	- 2.78
0.3166	- 2.74
0.3333	- 2.70
0.4167	- 2.55
0.5000	- 2.39
0.5833	- 2.24
0.6667	- 2.12
0.7500	- 2.01
0.8333	- 1.90
0.9167	- 1.79
1.0000	- 1.69
1.0833	- 1.60
1.1667	- 1.52
1.2500	- 1.44
1.3333	- 1.36
1.4166	- 1.29
1.5000	- 1.23

1.5833	-	1.17
1.6667	-	1.10
1.7500	-	1.06
1.8333	-	0.99
1.9167	-	0.95
2.0000	-	0.90
2.5000	-	0.68
3.0000	-	0.50
3.5000	-	0.39
4.0000	-	0.30
4.5000	-	0.23
5.0000	-	0.17
5.5000	-	0.14
6.0000	-	0.11
6.5000	-	0.07
7.0000	-	0.04
7.5000	-	0.03
8.0000	-	0.03
8.5000	-	0.01
9.0000		0.00
9.5000		0.01
10.0000		0.01
12.0000		0.03

END

****

SE1000B
Environmental Logger
10/23 17:36

Unit# 00000 Test# 1

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	50.12
Offset	0.00

Step# 0 09/27 10:58

Elapsed Time	Value
0.0000	- 2.67
0.0033	- 2.66
0.0066	- 2.58
0.0099	- 2.40
0.0133	- 2.28
0.0166	- 2.20
0.0200	- 2.23
0.0233	- 2.20
0.0266	- 2.15
0.0300	- 2.12
0.0333	- 2.05
0.0500	- 1.88
0.0666	- 1.74
0.0833	- 1.63
0.1000	- 1.52
0.1166	- 1.42
0.1333	- 1.34
0.1500	- 1.26
0.1666	- 1.18
0.1833	- 1.12
0.2000	- 1.06
0.2166	- 0.99
0.2333	- 0.95
0.2500	- 0.90
0.2666	- 0.85
0.2833	- 0.80
0.3000	- 0.77
0.3166	- 0.72
0.3333	- 0.69
0.4167	- 0.55
0.5000	- 0.42
0.5833	- 0.34
0.6667	- 0.28
0.7500	- 0.23
0.8333	- 0.19
0.9167	- 0.15
1.0000	- 0.12
1.0833	- 0.11
1.1667	- 0.09
1.2500	- 0.07
1.3333	- 0.06
1.4166	- 0.04
1.5000	- 0.04

1.5833	- 0.03
1.6667	- 0.03
1.7500	- 0.01
1.8333	- 0.01
1.9167	- 0.01
2.0000	0.00
2.5000	0.00
3.0000	0.00
3.5000	0.00
4.0000	0.01
4.5000	0.01
5.0000	0.01
5.5000	0.01
6.0000	0.01
6.5000	0.01
7.0000	0.01
7.5000	0.01
8.0000	0.01
8.5000	0.01
9.0000	0.03
9.5000	0.01
10.0000	0.01

END

****

SE1000B
Environmental Logger
10/23 17:40

Unit# 00000 Test# 1

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 50.12
Offset 0.00

Step# 1 09/27 11:10

Elapsed Time	Value
0.0000	- 1.53
0.0033	- 1.77
0.0066	- 1.82
0.0099	- 1.93
0.0133	- 2.02
0.0166	- 2.20
0.0200	- 2.40
0.0233	- 2.59
0.0266	- 2.74
0.0300	- 2.86
0.0333	- 2.93
0.0500	- 3.20
0.0666	- 2.70
0.0833	- 2.58
0.1000	- 2.39
0.1166	- 2.23
0.1333	- 2.10
0.1500	- 1.99
0.1666	- 1.88
0.1833	- 1.79
0.2000	- 1.69
0.2166	- 1.61
0.2333	- 1.53
0.2500	- 1.45
0.2666	- 1.39
0.2833	- 1.33
0.3000	- 1.26
0.3166	- 1.20
0.3333	- 1.15
0.4167	- 0.93
0.5000	- 0.74
0.5833	- 0.61
0.6667	- 0.50
0.7500	- 0.41
0.8333	- 0.34
0.9167	- 0.30
1.0000	- 0.25
1.0833	- 0.20
1.1667	- 0.17
1.2500	- 0.14
1.3333	- 0.12
1.4166	- 0.11
1.5000	- 0.09

1.5833	- 0.07
1.6667	- 0.06
1.7500	- 0.04
1.8333	- 0.04
1.9167	- 0.03
2.0000	- 0.03
2.5000	0.00
3.0000	0.00
3.5000	0.01
4.0000	0.01
4.5000	0.01
5.0000	0.01
5.5000	0.01
6.0000	0.01
6.5000	0.01
7.0000	0.01
7.5000	0.01
8.0000	0.01
8.5000	0.01
9.0000	0.03
9.5000	0.03
10.0000	0.03

END

****

SE1000B
Environmental Logger
10/23 17:43

Unit# 00000 Test# 1

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 50.12
Offset 0.00

Step# 2 09/27 11:20

Elapsed Time	Value
0.0000	- 3.34
0.0033	- 3.16
0.0066	- 3.01
0.0099	- 2.93
0.0133	- 2.96
0.0166	- 2.94
0.0200	- 2.88
0.0233	- 2.82
0.0266	- 2.78
0.0300	- 2.78
0.0333	- 2.72
0.0500	- 2.56
0.0666	- 2.42
0.0833	- 2.29
0.1000	- 2.17
0.1166	- 2.07
0.1333	- 1.98
0.1500	- 1.88
0.1666	- 1.80
0.1833	- 1.71
0.2000	- 1.64
0.2166	- 1.58
0.2333	- 1.50
0.2500	- 1.45
0.2666	- 1.39
0.2833	- 1.33
0.3000	- 1.28
0.3166	- 1.23
0.3333	- 1.18
0.4167	- 0.98
0.5000	- 0.80
0.5833	- 0.68
0.6667	- 0.57
0.7500	- 0.47
0.8333	- 0.41
0.9167	- 0.34
1.0000	- 0.30
1.0833	- 0.25
1.1667	- 0.22
1.2500	- 0.19
1.3333	- 0.15
1.4166	- 0.14
1.5000	- 0.11

1.5833	- 0.09
1.6667	- 0.07
1.7500	- 0.07
1.8333	- 0.06
1.9167	- 0.04
2.0000	- 0.04
2.5000	- 0.01
3.0000	0.00
3.5000	0.01
4.0000	0.01
4.5000	0.01
5.0000	0.01
5.5000	0.01
6.0000	0.03
6.5000	0.03
7.0000	0.03
7.5000	0.03
8.0000	0.03
8.5000	0.03
9.0000	0.03
9.5000	0.04
10.0000	0.04

END

****

SE1000B
Environmental Logger
10/23 17:46

Unit# 00000 Test# 2

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 50.12
Offset 0.00

Step# 0 09/27 12:26

Elapsed Time	Value
0.0000	- 4.72
0.0033	- 4.56
0.0066	- 4.48
0.0099	- 4.56
0.0133	- 4.62
0.0166	- 4.65
0.0200	- 4.59
0.0233	- 4.51
0.0266	- 4.48
0.0300	- 4.48
0.0333	- 4.57
0.0500	- 4.45
0.0666	- 4.40
0.0833	- 4.35
0.1000	- 4.32
0.1166	- 4.29
0.1333	- 4.24
0.1500	- 4.19
0.1666	- 4.15
0.1833	- 4.10
0.2000	- 4.07
0.2166	- 4.02
0.2333	- 3.99
0.2500	- 3.94
0.2666	- 3.91
0.2833	- 3.88
0.3000	- 3.83
0.3166	- 3.80
0.3333	- 3.77
0.4167	- 3.62
0.5000	- 3.48
0.5833	- 3.37
0.6667	- 3.26
0.7500	- 3.18
0.8333	- 3.08
0.9167	- 3.01
1.0000	- 2.93
1.0833	- 2.85
1.1667	- 2.78
1.2500	- 2.70
1.3333	- 2.64
1.4166	- 2.58
1.5000	- 2.51

1.5833	- 2.45
1.6667	- 2.39
1.7500	- 2.32
1.8333	- 2.26
1.9167	- 2.21
2.0000	- 2.15
2.5000	- 1.86
3.0000	- 1.60
3.5000	- 1.39
4.0000	- 1.20
4.5000	- 1.04
5.0000	- 0.90
5.5000	- 0.77
6.0000	- 0.68
6.5000	- 0.58
7.0000	- 0.50
7.5000	- 0.44
8.0000	- 0.38
8.5000	- 0.33
9.0000	- 0.28
9.5000	- 0.25
10.0000	- 0.22
12.0000	- 0.11
14.0000	- 0.04
16.0000	- 0.01
18.0000	0.00
20.0000	0.01

END

****

SE1000B
Environmental Logger
10/23 17:48

Unit# 00000 Test# 2

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	50.12
Offset	0.00

Step# 1 09/27 12:47

Elapsed Time	Value
0.0000	- 4.53
0.0033	- 4.53
0.0066	- 4.65
0.0099	- 4.65
0.0133	- 4.62
0.0166	- 4.53
0.0200	- 4.56
0.0233	- 4.54
0.0266	- 4.56
0.0300	- 4.54
0.0333	- 4.51
0.0500	- 4.46
0.0666	- 4.42
0.0833	- 4.37
0.1000	- 4.32
0.1166	- 4.27
0.1333	- 4.23
0.1500	- 4.18
0.1666	- 4.13
0.1833	- 4.10
0.2000	- 4.05
0.2166	- 4.02
0.2333	- 3.97
0.2500	- 3.94
0.2666	- 3.91
0.2833	- 3.88
0.3000	- 3.85
0.3166	- 3.81
0.3333	- 3.78
0.4167	- 3.64
0.5000	- 3.51
0.5833	- 3.40
0.6667	- 3.31
0.7500	- 3.21
0.8333	- 3.13
0.9167	- 3.05
1.0000	- 2.97
1.0833	- 2.89
1.1667	- 2.83
1.2500	- 2.75
1.3333	- 2.69
1.4166	- 2.63
1.5000	- 2.55

1.5833	-	2.48
1.6667	-	2.42
1.7500	-	2.37
1.8333	-	2.31
1.9167	-	2.24
2.0000	-	2.20
2.5000	-	1.90
3.0000	-	1.64
3.5000	-	1.41
4.0000	-	1.22
4.5000	-	1.06
5.0000	-	0.91
5.5000	-	0.79
6.0000	-	0.69
6.5000	-	0.60
7.0000	-	0.52
7.5000	-	0.45
8.0000	-	0.39
8.5000	-	0.33
9.0000	-	0.28
9.5000	-	0.25
10.0000	-	0.22
12.0000	-	0.11
14.0000	-	0.04
16.0000	-	0.01
18.0000		0.01

END

****

SE1000B
Environmental Logger
10/23 17:51

Unit# 00000 Test# 3

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	50.12
Offset	0.00

Step# 0 09/27 13:34

Elapsed Time	Value
0.0000	- 0.06
0.0033	- 0.04
0.0066	- 0.03
0.0099	- 0.03
0.0133	- 0.01
0.0166	- 0.01
0.0200	- 0.01
0.0233	0.00
0.0266	0.00
0.0300	0.00
0.0333	0.01
0.0500	0.03
0.0666	0.03
0.0833	0.03
0.1000	0.03
0.1166	0.04
0.1333	0.04
0.1500	0.04
0.1666	0.04
0.1833	0.04
0.2000	0.04
0.2166	0.04
0.2333	0.04
0.2500	0.04
0.2666	0.06
0.2833	0.06
0.3000	0.06
0.3166	0.06
0.3333	0.06
0.4167	0.06
0.5000	0.06
0.5833	0.04
0.6667	0.06
0.7500	0.04
0.8333	0.04
0.9167	0.04
1.0000	0.04
1.0833	0.04
1.1667	0.04
1.2500	0.04
1.3333	0.04
1.4166	0.04
1.5000	0.03

1.5833	0.03
1.6667	0.03
1.7500	0.04
1.8333	0.03
1.9167	0.03
2.0000	0.03
2.5000	0.04
3.0000	0.03
3.5000	0.03
4.0000	0.03
4.5000	0.03
5.0000	0.03
5.5000	0.03
6.0000	0.03
6.5000	0.03
7.0000	0.03
7.5000	0.03
8.0000	0.03
8.5000	0.03
9.0000	0.03
9.5000	0.03
10.0000	0.03
12.0000	0.03

END

SE1000B
Environmental Logger
10/23 17:55

Unit# 00000 Test# 3

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	50.12
Offset	0.00

Step# 1 09/27 13:47

Elapsed Time	Value
0.0000	- 0.06
0.0033	- 0.04
0.0066	- 0.03
0.0099	- 0.01
0.0133	- 0.01
0.0166	0.00
0.0200	0.00
0.0233	0.01
0.0266	0.01
0.0300	0.01
0.0333	0.03
0.0500	0.04
0.0666	0.04
0.0833	0.04
0.1000	0.04
0.1166	0.06
0.1333	0.06
0.1500	0.07
0.1666	0.06
0.1833	0.06
0.2000	0.07
0.2166	0.07
0.2333	0.07
0.2500	0.07
0.2666	0.07
0.2833	0.07
0.3000	0.07
0.3166	0.07
0.3333	0.07
0.4167	0.07
0.5000	0.07
0.5833	0.07
0.6667	0.07
0.7500	0.06
0.8333	0.06
0.9167	0.06
1.0000	0.06
1.0833	0.06
1.1667	0.04
1.2500	0.06
1.3333	0.04
1.4166	0.04
1.5000	0.04

1.5833	0.04
1.6667	0.04
1.7500	0.04
1.8333	0.04
1.9167	0.04
2.0000	0.04
2.5000	0.04
3.0000	0.04
3.5000	0.04
4.0000	0.04
4.5000	0.04
5.0000	0.04
5.5000	0.04
6.0000	0.04
6.5000	0.04
7.0000	0.04
7.5000	0.04
8.0000	0.04
8.5000	0.04
9 0000	0.04
9.5000	0.04
10.0000	0.04
12.0000	0.04

END

****

SE1000B
Environmental Logger
10/23 17:58

Unit# 00000 Test# 4

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 50.12
Offset 0.00

Step# 0 09/27 14:17

Elapsed Time	Value
0.0000	- 0.71
0.0033	- 0.66
0.0066	- 0.69
0.0099	- 0.64
0.0133	- 0.61
0.0166	- 0.68
0.0200	- 0.61
0.0233	- 0.61
0.0266	- 0.58
0.0300	- 0.57
0.0333	- 0.49
0.0500	- 0.20
0.0666	- 0.09
0.0833	- 0.04
0.1000	- 0.03
0.1166	- 0.01
0.1333	0.00
0.1500	0.01
0.1666	0.01
0.1833	0.03
0.2000	0.03
0.2166	0.03
0.2333	0.04
0.2500	0.04
0.2666	0.04
0.2833	0.04
0.3000	0.04
0.3166	0.06
0.3333	0.04
0.4167	0.06
0.5000	0.06
0.5833	0.06
0.6667	0.06
0.7500	0.06
0.8333	0.06
0.9167	0.06
1.0000	0.04
1.0833	0.06
1.1667	0.04
1.2500	0.04
1.3333	0.04
1.4166	0.04
1.5000	0.04

1.5833	0.04
1.6667	0.04
1.7500	0.04
1.8333	0.04
1.9167	0.04
2.0000	0.04
2.5000	0.04
3.0000	0.04
3.5000	0.04
4.0000	0.04
4.5000	0.04
5.0000	0.04
5.5000	0.06
6.0000	0.06
6.5000	0.06
7.0000	0.06
7.5000	0.06
8.0000	0.06
8.5000	0.06
9.0000	0.06
9.5000	0.06
10.0000	0.07

END

****

SE1000B
Environmental Logger
10/23 18:03

Unit# 00000 Test# 4

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	50.12
Offset	0.00

Step# 1 09/27 14:29

Elapsed Time	Value
0.0000	- 0.82
0.0033	- 0.90
0.0066	- 0.82
0.0099	- 0.76
0.0133	- 0.76
0.0166	- 0.77
0.0200	- 0.61
0.0233	- 0.72
0.0266	- 0.64
0.0300	- 0.66
0.0333	- 0.52
0.0500	- 0.20
0.0666	- 0.04
0.0833	0.00
0.1000	0.03
0.1166	0.04
0.1333	0.06
0.1500	0.06
0.1666	0.07
0.1833	0.07
0.2000	0.09
0.2166	0.09
0.2333	0.09
0.2500	0.09
0.2666	0.11
0.2833	0.11
0.3000	0.11
0.3166	0.11
0.3333	0.11
0.4167	0.11
0.5000	0.11
0.5833	0.11
0.6667	0.11
0.7500	0.11
0.8333	0.09
0.9167	0.11
1.0000	0.09
1.0833	0.09
1.1667	0.09
1.2500	0.09
1.3333	0.09
1.4166	0.09
1.5000	0.09

1.5833	0.07
1.6667	0.07
1.7500	0.07
1.8333	0.07
1.9167	0.07
2.0000	0.07
2.5000	0.07
3.0000	0.07
3.5000	0.07
4.0000	0.07
4.5000	0.07
5.0000	0.07
5.5000	0.07
6.0000	0.07
6.5000	0.07
7.0000	0.07
7.5000	0.07
8.0000	0.07
8.5000	0.09
9.0000	0.07
9.5000	0.07
10.0000	0.09

END

****

SE1000B
Environmental Logger
10/23 18:06

Unit# 00000 Test# 5

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 50.12
Offset 0.00

Step# 0 09/27 15:10

Elapsed Time	Value
0.0000	- 2.44
0.0033	- 2.26
0.0066	- 2.10
0.0099	- 1.99
0.0133	- 1.90
0.0166	- 1.80
0.0200	- 1.74
0.0233	- 1.64
0.0266	- 1.56
0.0300	- 1.50
0.0333	- 1.45
0.0500	- 1.15
0.0666	- 0.93
0.0833	- 0.76
0.1000	- 0.63
0.1166	- 0.52
0.1333	- 0.42
0.1500	- 0.36
0.1666	- 0.30
0.1833	- 0.25
0.2000	- 0.22
0.2166	- 0.17
0.2333	- 0.15
0.2500	- 0.12
0.2666	- 0.11
0.2833	- 0.09
0.3000	- 0.07
0.3166	- 0.06
0.3333	- 0.06
0.4167	- 0.03
0.5000	- 0.01
0.5833	0.00
0.6667	0.00
0.7500	0.01
0.8333	0.01
0.9167	0.01
1.0000	0.01
1.0833	0.01
1.1667	0.01
1.2500	0.01
1.3333	0.01
1.4166	0.01
1.5000	0.01

1.5833	0.01
1.6667	0.01
1.7500	0.01
1.8333	0.01
1.9167	0.01
2.0000	0.01
2.5000	0.01
3.0000	0.00
3.5000	0.01
4.0000	0.01
4.5000	0.00
5.0000	0.01
5.5000	0.01
6.0000	0.01
6.5000	0.01
7.0000	0.01
7.5000	0.01
8.0000	0.01
8.5000	0.01
9.0000	0.01
9.5000	0.01
10.0000	0.01

END

SE1000B
Environmental Logger
10/23 18:09

Unit# 00000 Test# 5

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 50.12
Offset 0.00

Step# 1 09/27 15:22

Elapsed Time	Value
0.0000	- 2.64
0.0033	- 2.59
0.0066	- 2.42
0.0099	- 2.31
0.0133	- 2.17
0.0166	- 2.04
0.0200	- 1.94
0.0233	- 1.85
0.0266	- 1.77
0.0300	- 1.67
0.0333	- 1.60
0.0500	- 1.28
0.0666	- 1.02
0.0833	- 0.83
0.1000	- 0.68
0.1166	- 0.55
0.1333	- 0.45
0.1500	- 0.38
0.1666	- 0.31
0.1833	- 0.26
0.2000	- 0.22
0.2166	- 0.19
0.2333	- 0.15
0.2500	- 0.14
0.2666	- 0.11
0.2833	- 0.09
0.3000	- 0.07
0.3166	- 0.07
0.3333	- 0.06
0.4167	- 0.03
0.5000	0.00
0.5833	0.00
0.6667	0.01
0.7500	0.01
0.8333	0.01
0.9167	0.01
1.0000	0.01
1.0833	0.01
1.1667	0.01
1.2500	0.01
1.3333	0.01
1.4166	0.01
1.5000	0.01

1.5833	0.01
1.6667	0.01
1.7500	0.01
1.8333	0.01
1.9167	0.01
2.0000	0.01
2.5000	0.01
3.0000	0.01
3.5000	0.01
4.0000	0.01
4.5000	0.01
5.0000	0.01
5.5000	0.01
6.0000	0.01
6.5000	0.01
7.0000	0.01
7.5000	0.01
8.0000	0.01
8.5000	0.01
9.0000	0.01
9.5000	0.01
10.0000	0.01

END

****

SE1000B
Environmental Logger
10/23 18:12

Unit# 00000 Test# 6

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	50.12
Offset	0.00

Step# 0 09/28 09:33

Elapsed Time	Value
0.0000	- 2.80
0.0033	- 2.85
0.0066	- 2.91
0.0099	- 2.89
0.0133	- 2.80
0.0166	- 2.63
0.0200	- 2.44
0.0233	- 2.28
0.0266	- 2.21
0.0300	- 2.24
0.0333	- 2.31
0.0500	- 2.17
0.0666	- 2.09
0.0833	- 1.98
0.1000	- 1.88
0.1166	- 1.79
0.1333	- 1.72
0.1500	- 1.64
0.1666	- 1.58
0.1833	- 1.52
0.2000	- 1.45
0.2166	- 1.39
0.2333	- 1.34
0.2500	- 1.28
0.2666	- 1.23
0.2833	- 1.18
0.3000	- 1.15
0.3166	- 1.10
0.3333	- 1.07
0.4167	- 0.90
0.5000	- 0.76
0.5833	- 0.64
0.6667	- 0.55
0.7500	- 0.47
0.8333	- 0.41
0.9167	- 0.34
1.0000	- 0.30
1.0833	- 0.26
1.1667	- 0.22
1.2500	- 0.19
1.3333	- 0.17
1.4166	- 0.14
1.5000	- 0.11

1.5833	- 0.09
1.6667	- 0.07
1.7500	- 0.06
1.8333	- 0.04
1.9167	- 0.04
2.0000	- 0.03
2.5000	0.00
3.0000	0.01
3.5000	0.01
4.0000	0.03
4.5000	0.03
5.0000	0.03
5.5000	0.03
6.0000	0.03
6.5000	0.03
7.0000	0.03
7.5000	0.03
8.0000	0.03
8.5000	0.03
9.0000	0.03
9.5000	0.03
10.0000	0.03

END

****

SE1000B
Environmental Logger
10/23 18:16

Unit# 00000 Test# 6

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 50.12
Offset 0.00

Step# 1 09/28 09:45

Elapsed Time	Value
0.0000	- 3.16
0.0033	- 2.96
0.0066	- 2.78
0.0099	- 2.67
0.0133	- 2.67
0.0166	- 2.70
0.0200	- 2.77
0.0233	- 2.80
0.0266	- 2.77
0.0300	- 2.69
0.0333	- 2.63
0.0500	- 2.55
0.0666	- 2.42
0.0833	- 2.34
0.1000	- 2.24
0.1166	- 2.17
0.1333	- 2.09
0.1500	- 2.02
0.1666	- 1.94
0.1833	- 1.88
0.2000	- 1.82
0.2166	- 1.77
0.2333	- 1.71
0.2500	- 1.66
0.2666	- 1.61
0.2833	- 1.56
0.3000	- 1.50
0.3166	- 1.47
0.3333	- 1.42
0.4167	- 1.23
0.5000	- 1.07
0.5833	- 0.95
0.6667	- 0.83
0.7500	- 0.74
0.8333	- 0.64
0.9167	- 0.58
1.0000	- 0.52
1.0833	- 0.45
1.1667	- 0.41
1.2500	- 0.36
1.3333	- 0.33
1.4166	- 0.28
1.5000	- 0.25

1.5833	- 0.23
1.6667	- 0.20
1.7500	- 0.17
1.8333	- 0.15
1.9167	- 0.14
2.0000	- 0.12
2.5000	- 0.04
3.0000	- 0.01
3.5000	0.00
4.0000	0.01
4.5000	0.01
5.0000	0.03
5.5000	0.03
6.0000	0.03
6.5000	0.03
7.0000	0.03
7.5000	0.03
8.0000	0.03
8.5000	0.03
9.0000	0.03
9.5000	0.03
10.0000	0.04

END

****

SE1000B
Environmental Logger
10/23 18:18

Unit# 00000 Test# 7

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 50.12
Offset 0.00

Step# 0 09/29 11:14

Elapsed Time	Value
0.0000	1.98
0.0033	2.23
0.0066	2.69
0.0099	2.44
0.0133	2.20
0.0166	2.34
0.0200	2.45
0.0233	2.31
0.0266	2.26
0.0300	2.34
0.0333	2.34
0.0500	2.24
0.0666	2.21
0.0833	2.18
0.1000	2.13
0.1166	2.10
0.1333	2.07
0.1500	2.04
0.1666	2.01
0.1833	1.96
0.2000	1.94
0.2166	1.91
0.2333	1.88
0.2500	1.85
0.2666	1.83
0.2833	1.80
0.3000	1.77
0.3166	1.74
0.3333	1.72
0.4167	1.61
0.5000	1.50
0.5833	1.41
0.6667	1.31
0.7500	1.23
0.8333	1.15
0.9167	1.09
1.0000	1.02
1.0833	0.96
1.1667	0.91
1.2500	0.87
1.3333	0.80
1.4166	0.77
1.5000	0.72

1.5833	0.69
1.6667	0.64
1.7500	0.61
1.8333	0.60
1.9167	0.55
2.0000	0.53
2.5000	0.41
3.0000	0.31
3.5000	0.25
4.0000	0.22
4.5000	0.19
5.0000	0.15
5.5000	0.15
6.0000	0.14
6.5000	0.12
7.0000	0.12
7.5000	0.12
8.0000	0.11
8.5000	0.11
9.0000	0.11
9.5000	0.11
10.0000	0.11
12.0000	0.11
14.0000	0.11
16.0000	0.11
18.0000	0.11
20.0000	0.11
22.0000	0.11
24.0000	0.11
26.0000	0.11
28.0000	0.11

END

SE1000B
Environmental Logger
10/23 18:22

Unit# 00000 Test# 8

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 50.12
Offset 0.00

Step# 0 09/29 11:58

Elapsed Time	Value
0.0000	2.29
0.0033	2.20
0.0066	2.42
0.0099	2.40
0.0133	2.26
0.0166	2.28
0.0200	2.34
0.0233	2.29
0.0266	2.24
0.0300	2.28
0.0333	2.28
0.0500	2.21
0.0666	2.18
0.0833	2.13
0.1000	2.10
0.1166	2.07
0.1333	2.04
0.1500	1.99
0.1666	1.98
0.1833	1.94
0.2000	1.90
0.2166	1.88
0.2333	1.85
0.2500	1.82
0.2666	1.79
0.2833	1.77
0.3000	1.74
0.3166	1.72
0.3333	1.69
0.4167	1.56
0.5000	1.47
0.5833	1.36
0.6667	1.28
0.7500	1.18
0.8333	1.12
0.9167	1.04
1.0000	0.98
1.0833	0.91
1.1667	0.87
1.2500	0.80
1.3333	0.76
1.4166	0.72
1.5000	0.68

1.5833	0.64
1.6667	0.60
1.7500	0.57
1.8333	0.53
1.9167	0.50
2.0000	0.47
2.5000	0.34
3.0000	0.25
3.5000	0.19
4.0000	0.14
4.5000	0.12
5.0000	0.09
5.5000	0.07
6.0000	0.06
6.5000	0.06
7.0000	0.04
7.5000	0.04
8.0000	0.04
8.5000	0.04
9.0000	0.04
9.5000	0.04
10.0000	0.03
12.0000	0.03
14.0000	0.03
16.0000	0.03
18.0000	0.03
20.0000	0.03
22.0000	0.03
24.0000	0.03

END

****

APPENDIX

MAGNETOMETER DATA

HANCOCK FIELD SITE
ONONDAGA COUNTY, NEW YORK

FOR

SCIENCE APPLICATIONS INTERNATIONAL CORP.
McLEAN, VIRGINIA

JANUARY 1987

DELTA
GEOPHYSICAL SERVICES

DISPOSAL SITE D-1

** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HN10

Line	Date	Time	Site	Field
0	003	08:11:45	1	?57559.6
0	003	08:12:30	2	?56954.2
0	003	08:12:54	3	56133.8
0	003	08:13:10	4	?55389.4
0	003	08:14:00	5	56081.4
0	003	08:14:22	6	56489.8
0	003	08:14:42	7	?57306.6
0	003	08:15:03	8	?56330.6
0	003	08:15:16	9	56980.0
0	003	08:15:33	10	?57403.8
0	003	08:16:14	11	?55872.6
0	003	08:17:14	12	56092.6
0	003	08:17:27	13	56309.8
0	003	08:17:40	14	56035.8
0	003	08:18:00	15	?56920.2
0	003	08:18:12	16	?57232.2
0	003	08:18:24	17	?56361.2
0	003	08:18:37	18	?52728.6
0	003	08:19:08	19	?54940.6
0	003	08:19:26	20	55969.6
0	003	08:19:39	21	?56402.4
0	003	08:20:01	22	?55977.6
1	003	08:21:49	23	?55246.6
1	003	08:22:07	24	?54882.2
1	003	08:22:22	25	?56029.8
1	003	08:22:35	26	?56950.2
1	003	08:22:52	27	?56231.0
1	003	08:23:04	28	?55505.6
1	003	08:23:21	29	?56326.2
1	003	08:24:04	30	?58041.4
1	003	08:24:20	31	?57708.6
1	003	08:24:32	32	57020.8
1	003	08:24:43	33	?56246.4
1	003	08:24:56	34	?54279.6
1	003	08:25:10	35	?56077.8
1	003	08:25:23	36	?57520.0
1	003	08:25:38	37	57465.4
1	003	08:25:53	38	?56459.2
1	003	08:26:07	39	?58775.6
1	003	08:26:29	40	?57141.0
1	003	08:26:45	41	?56556.0
1	003	08:26:57	42	56619.6

? = High gradient reading, indicating
metal close to land surface.

1 003	08:27:12	43	?56287.2
1 003	08:27:27	44	?55388.2
1 003	08:27:41	45	?55907.8
1 003	08:28:09	46	?52211.4
1 003	08:28:34	47	57999.0
1 003	08:28:54	48	?56419.2
1 003	08:29:29	49	?56047.2
1 003	08:29:52	50	?56135.2
1 003	08:30:07	51	?57557.0
2 003	08:32:22	52	56583.0
2 003	08:32:39	53	?57333.8
2 003	08:32:53	54	?54598.0
2 003	08:33:12	55	?56219.4
2 003	08:33:41	56	56473.6
2 003	08:33:54	57	?58231.8
2 003	08:34:11	58	?56336.0
2 003	08:34:30	59	?56031.6
2 003	08:34:45	60	56522.2
2 003	08:35:25	61	?57050.0
2 003	08:35:44	62	57086.2
2 003	08:36:03	63	56962.6
2 003	08:36:17	64	?57769.4
2 003	08:36:35	65	?56950.4
2 003	08:36:58	66	?55728.2
2 003	08:37:12	67	?55911.4
2 003	08:37:25	68	56073.2
2 003	08:38:16	69	56120.8
2 003	08:38:33	70	56479.8
2 003	08:38:49	71	56936.8
2 003	08:39:02	72	56871.2
2 003	08:39:14	73	?56567.4
2 003	08:39:28	74	?57166.0
2 003	08:40:31	75	55952.2
2 003	08:40:47	76	?55830.2
2 003	08:41:00	77	?54946.2
2 003	08:41:16	78	?55673.6
2 003	08:41:30	79	?58288.0
2 003	08:41:47	80	?57383.2
2 003	08:42:01	81	?56911.0
2 003	08:42:15	82	?55635.4
2 003	08:42:36	83	55510.6
3 003	08:54:24	84	?55615.0
3 003	08:54:40	85	?54808.4
3 003	08:55:06	86	?56692.8
3 003	08:55:23	87	?56787.2
3 003	08:55:37	88	?56406.4
3 003	08:55:50	89	56685.8
3 003	08:56:02	90	?56544.4

3 003	08:56:16	91	56243.0
3 003	08:56:33	92	56225.4
3 003	08:56:45	93	?55150.4
3 003	08:56:59	94	56405.8
3 003	08:57:37	95	?54414.6
3 003	08:57:52	96	?55519.4
3 003	08:58:04	97	?55939.0
3 003	08:58:17	98	?56070.8
3 003	08:58:28	99	?55928.2
3 003	08:58:43	100	56501.2
3 003	08:58:56	101	?56446.4
3 003	08:59:09	102	?56224.6
3 003	08:59:26	103	56352.0
3 003	08:59:44	104	56226.2
3 003	09:00:02	105	56295.0
3 003	09:00:21	106	56608.0
3 003	09:00:35	107	?56556.4
3 003	09:00:48	108	56728.8
3 003	09:01:03	109	?56297.0
3 003	09:01:18	110	56224.0
3 003	09:01:38	111	56201.6
3 003	09:01:51	112	?55848.6
3 003	09:02:08	113	?55908.4
3 003	09:02:31	114	55937.4
3 003	09:03:10	115	?55252.8
3 003	09:03:25	116	?55652.4
3 003	09:03:42	117	56178.2
3 003	09:03:55	118	56618.0
3 003	09:04:09	119	?56543.8
4 003	09:06:06	120	?58703.2
4 003	09:06:34	121	?58812.6
4 003	09:06:50	122	?56168.2
4 003	09:07:02	123	?57945.2
4 003	09:07:17	124	?57668.0
4 003	09:07:32	125	?57675.8
4 003	09:07:44	126	?55173.2
4 003	09:07:57	127	?56011.2
4 003	09:08:14	128	?55641.8
4 003	09:09:43	129	56044.4
4 003	09:10:06	130	56512.2
4 003	09:10:19	131	?56810.8
4 003	09:10:34	132	56264.2
4 003	09:10:48	133	56282.8
4 003	09:11:02	134	56737.0
4 003	09:11:16	135	57109.0
4 003	09:11:29	136	?57452.6
4 003	09:11:42	137	56857.8
4 003	09:11:58	138	?57216.8
4 003	09:15:43	139	56381.6

4 003	09:16:02	140	?56053.2
4 003	09:16:15	141	56435.4
4 003	09:16:30	142	?56972.0
4 003	09:16:43	143	56833.4
4 003	09:16:55	144	56618.4
4 003	09:17:07	145	?56401.8
4 003	09:17:18	146	56946.2
4 003	09:17:30	147	?56912.4
4 003	09:18:19	148	56667.8
4 003	09:18:54	149	?56287.8
4 003	09:19:10	150	56020.0
4 003	09:19:23	151	?55768.8
4 003	09:19:37	152	?55931.0
4 003	09:19:49	153	56557.0
4 003	09:20:02	154	?57877.6
4 003	09:20:17	155	56519.4
4 003	09:20:33	156	?56331.8
4 003	09:20:46	157	?56410.2
4 003	09:21:00	158	56386.2
4 003	09:21:14	159	?56984.4
4 003	09:21:28	160	56314.0
4 003	09:21:40	161	55998.4
4 003	09:21:54	162	?55496.8
5 003	09:24:34	163	?56186.6
5 003	09:41:08	164	55657.6
5 003	09:41:23	165	55775.2
5 003	09:41:36	166	56111.4
5 003	09:41:49	167	?56060.4
5 003	09:42:06	168	?57772.0
5 003	09:42:42	169	57316.6
5 003	09:42:54	170	?57239.6
5 003	09:43:12	171	56546.6
5 003	09:43:26	172	56879.8
5 003	09:43:38	173	56674.4
5 003	09:43:51	174	?57040.8
5 003	09:44:03	175	?58605.4
5 003	09:44:16	176	?57183.2
5 003	09:44:28	177	56533.6
5 003	09:44:43	178	?56628.2
5 003	09:45:05	179	56694.0
5 003	09:45:17	180	?57503.4
5 003	09:45:29	181	?57627.0
5 003	09:45:43	182	?57456.8
5 003	09:45:58	183	56630.6
5 003	09:46:09	184	?56554.6
5 003	09:46:25	185	?56218.8
5 003	09:46:41	186	56637.2
5 003	09:46:57	187	?56743.4

5 003	09:47:22	188	56630.0
5 003	09:47:40	189	?56743.2
5 003	09:47:51	190	?57059.0
5 003	09:48:03	191	56362.0
5 003	09:48:13	192	?55943.2
5 003	09:48:25	193	56624.0
5 003	09:48:36	194	?57116.4
5 003	09:48:46	195	56603.8
5 003	09:48:57	196	56599.0
5 003	09:49:13	197	56184.4
5 003	09:49:28	198	?56256.8
5 003	09:49:41	199	56072.2
5 003	09:49:54	200	?56499.4
5 003	09:50:07	201	?56237.0
5 003	09:50:20	202	?54673.0
5 003	09:50:31	203	?55265.6
5 003	09:50:46	204	?58148.0
5 003	09:50:59	205	?54724.6
5 003	09:51:12	206	?52134.2
6 003	09:53:39	207	?56698.6
6 003	09:54:05	208	?57272.0
6 003	09:54:18	209	?58051.4
6 003	09:54:40	210	?47720.4
6 003	09:54:57	211	?59058.4
6 003	09:55:14	212	?53991.2
6 003	09:55:27	213	?55459.0
6 003	09:55:40	214	?56039.0
6 003	09:55:52	215	55903.0
6 003	09:56:04	216	?56316.6
6 003	09:56:16	217	?56749.2
6 003	09:56:56	218	?57044.0
6 003	09:57:15	219	56483.2
6 003	09:57:30	220	?56586.4
6 003	09:57:44	221	?57019.0
6 003	09:57:56	222	56946.4
6 003	09:58:08	223	?56965.8
6 003	09:58:20	224	?56264.2
6 003	09:58:33	225	?56228.0
6 003	09:58:45	226	?56437.6
6 003	09:58:57	227	?56705.0
6 003	09:59:11	228	?56596.8
6 003	09:59:23	229	?56705.6
6 003	09:59:36	230	56292.0
6 003	09:59:52	231	56394.2
6 003	10:00:04	232	?56877.2
6 003	10:00:16	233	56749.4
6 003	10:00:43	234	?56983.2
6 003	10:00:57	235	56508.8

6 003	10:01:11	236	56401.2
6 003	10:01:35	237	?56782.8
6 003	10:01:49	238	56814.6
6 003	10:02:01	239	?57757.8
6 003	10:02:15	240	?58108.8
6 003	10:02:30	241	?56580.2
6 003	10:02:53	242	?56231.2
6 003	10:03:07	243	56094.6
6 003	10:03:20	244	?56653.2
6 003	10:03:38	245	?54547.0
6 003	10:03:52	246	?56319.4
6 003	10:04:32	247	?56112.2
6 003	10:04:45	248	55307.6
6 003	10:05:00	249	55602.2
6 003	10:05:15	250	55709.4
6 003	10:05:45	251	56051.8
6 003	10:05:59	252	56420.0
6 003	10:06:21	253	?56936.4
7 003	10:08:46	254	56131.8
7 003	10:09:13	255	?56014.0
7 003	10:09:29	256	?57477.4
7 003	10:09:44	257	56901.2
7 003	10:09:56	258	?56790.8
7 003	10:10:08	259	56440.4
7 003	10:10:21	260	56346.8
7 003	10:10:33	261	55795.8
7 003	10:10:49	262	?54947.6
7 003	10:11:04	263	?56019.4
7 003	10:11:17	264	?56930.8
7 003	10:12:08	265	?57628.4
7 003	10:12:28	266	56981.6
7 003	10:12:40	267	?57121.0
7 003	10:12:53	268	56391.4
7 003	10:13:05	269	56277.8
7 003	10:13:18	270	56442.8
7 003	10:13:31	271	?56595.2
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7 003	10:14:00	273	?58257.8
7 003	10:14:17	274	?58052.6
7 003	10:14:40	275	?57722.4
7 003	10:14:52	276	57499.4
7 003	10:15:05	277	?56866.4
7 003	10:15:17	278	?57156.8
7 003	10:15:31	279	?56465.6
7 003	10:15:44	280	?56470.6
7 003	10:15:55	281	56695.6
7 003	10:16:07	282	?57854.0
7 003	10:16:20	283	56860.4

7	003	10:16:33	284	56[illegible]86.0
7	003	10:16:52	285	56613.6
7	003	10:17:03	286	56371.4
7	003	10:17:16	287	56336.4
7	003	10:17:28	288	56124.0
7	003	10:17:39	289	56157.4
7	003	10:17:58	290	56727.8
7	003	10:18:13	291	?57956.6
7	003	10:18:27	292	?57905.4
7	003	10:18:39	293	?56625.2
7	003	10:18:53	294	?56392.2
7	003	10:19:16	295	?56917.8
7	003	10:19:28	296	56302.8
7	003	10:19:38	297	56302.6
7	003	10:19:49	298	?55816.2
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7	003	10:20:12	300	?55947.2
7	003	10:20:23	301	?54868.2
7	003	10:20:36	302	56399.2
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8	003	10:24:29	306	55945.2
8	003	10:24:40	307	55998.0
8	003	10:24:52	308	?56155.6
8	003	10:25:04	309	?56637.8
8	003	10:25:16	310	?56633.0
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8	003	10:26:31	313	?58417.2
8	003	10:26:45	314	?57526.4
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8	003	10:27:27	316	56303.8
8	003	10:27:39	317	56312.4
8	003	10:27:52	318	?56361.8
8	003	10:28:07	319	56526.0
8	003	10:28:18	320	?57223.6
8	003	10:28:31	321	?58041.0
8	003	10:28:46	322	57205.4
8	003	10:28:58	323	?57789.2
8	003	10:29:11	324	?57550.4
8	003	10:29:23	325	?56613.6
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8	003	10:29:58	328	?57439.8
8	003	10:30:12	329	56998.6
8	003	10:30:25	330	?57396.0
8	003	10:30:43	331	?56881.6

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8 003	10:31:12	333	?56365.4
8 003	10:31:24	334	?56365.8
8 003	10:31:36	335	?56470.8
8 003	10:31:49	336	55998.2
8 003	10:37:21	337	55956.6
8 003	10:37:35	338	?56222.8
8 003	10:37:46	339	?56705.4
8 003	10:37:57	340	?55635.2
8 003	10:38:15	341	?56096.0
8 003	10:38:29	342	56664.8
8 003	10:39:08	343	56242.8
8 003	10:39:20	344	?56575.4
8 003	10:39:31	345	?56154.0
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8 003	10:39:53	347	?56893.0
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8 003	10:40:17	349	56311.2
8 003	10:40:30	350	?55752.8
8 003	10:40:47	351	56260.6
8 003	10:41:02	352	56300.0
8 003	10:41:47	353	?55865.6
8 003	10:42:05	354	56074.0
8 003	10:42:24	355	56681.6
9 003	10:45:59	356	?55415.2
9 003	10:46:19	357	?56544.4
9 003	10:46:40	358	?57403.8
9 003	10:46:52	359	?56993.8
9 003	10:47:05	360	?56388.0
9 003	10:47:19	361	56773.8
9 003	10:47:33	362	56827.0
9 003	10:47:51	363	56799.2
9 003	10:48:18	364	?56129.0
9 003	10:48:30	365	?56969.0
9 003	10:48:48	366	56679.8
9 003	10:49:00	367	?56295.0
9 003	10:49:14	368	56483.6
9 003	10:49:26	369	56225.4
9 003	10:49:37	370	?55816.0
9 003	10:49:50	371	56714.0
9 003	10:50:10	372	?56039.2
9 003	10:50:24	373	56417.4
9 003	10:50:56	374	56612.4
9 003	10:51:08	375	56729.0
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9 003	10:51:33	377	?56161.2
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9	003	10:53:59	387	?56620.0
9	003	10:54:11	388	?56462.2
9	003	10:54:23	389	57143.8
9	003	10:54:38	390	?57010.6
9	003	10:54:51	391	?58401.8
9	003	10:55:03	392	?56994.2
9	003	10:55:17	393	?57194.4
9	003	10:58:15	394	?57110.2
9	003	10:58:28	395	?56831.8
9	003	10:58:43	396	?58376.4
9	003	10:58:56	397	56917.4
9	003	10:59:07	398	?56488.2
9	003	10:59:21	399	56971.2
9	003	10:59:32	400	57059.0
9	003	10:59:43	401	?56186.0
9	003	10:59:56	402	?57308.4
9	003	11:00:10	403	?56112.2
9	003	11:00:28	404	?56157.6
9	003	11:00:39	405	?58563.6
9	003	11:00:52	406	?56682.2
9	003	11:01:04	407	?56626.4
9	003	11:01:17	408	56516.6
9	003	11:01:29	409	?57114.0
9	003	11:01:41	410	?55672.4
9	003	11:02:01	411	?57300.0
9	003	11:02:16	412	?56844.2
9	003	11:02:30	413	?56662.4
10	003	11:03:41	414	?57798.4
10	003	11:04:04	415	57513.4
10	003	11:04:19	416	?56792.2
10	003	11:04:41	417	?56600.0
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** G-856 MAGNETOMETER DATA **

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** G-856 MAGNETOMETER DATA **
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** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HN13

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33 004	15:34:01	771	?56192.6
33 004	15:34:13	772	?56731.4
33 004	15:34:28	773	56474.2
33 004	15:34:49	774	56454.0
33 004	15:35:01	775	56422.6
33 004	15:35:13	776	56458.2
33 004	15:35:32	777	56479.2
33 004	15:35:53	778	56488.8
33 004	15:36:16	779	56450.4
33 004	15:36:41	780	56441.6
33 004	15:37:01	781	56458.6
33 004	15:37:19	782	56417.2
33 004	15:37:35	783	56515.4
33 004	15:37:46	784	?56870.8
33 004	15:38:01	785	56523.8
33 004	15:38:15	786	56530.4
33 004	15:38:27	787	56512.0
33 004	15:38:39	788	56473.8
33 004	15:38:53	789	56441.8
33 004	15:39:07	790	56472.4
33 004	15:39:20	791	56461.0
34 004	15:40:40	792	56498.0
34 004	15:40:56	793	56615.8

34 004	15:41:10	794	?56680.2
34 004	15:41:24	795	56702.0
34 004	15:41:43	796	?57095.6
34 004	15:41:56	797	56670.6
34 004	15:42:07	798	56263.8
34 004	15:42:19	799	56475.4
34 004	15:42:32	800	56567.4
34 004	15:42:50	801	56677.8
34 004	15:44:13	802	56696.4
34 004	15:44:29	803	56525.8
34 004	15:44:40	804	56615.6
34 004	15:44:52	805	?57052.2
34 004	15:45:04	806	?57343.0
34 004	15:45:35	807	56857.6
34 004	15:45:47	808	56395.0
34 004	15:45:59	809	56452.8
34 004	15:46:13	810	56531.6
34 004	15:46:24	811	56570.8
34 004	15:46:35	812	56593.0
34 004	15:46:54	813	56542.0
35 004	15:47:57	814	56511.2
35 004	15:48:22	815	56462.8
35 004	15:48:38	816	56497.0
35 004	15:48:52	817	56427.0
35 004	15:49:05	818	56321.6
35 004	15:49:19	819	?56135.0
35 004	15:49:34	820	56452.2
35 004	15:49:54	821	56715.6
35 004	15:50:07	822	56989.0
35 004	15:50:19	823	?56544.2
35 004	15:50:38	824	56414.4
35 004	15:51:23	825	56614.0
35 004	15:52:05	826	56525.8
35 004	15:52:35	827	56427.6
35 004	15:52:46	828	56467.4
35 004	15:52:58	829	56456.2
35 004	15:53:09	830	56531.2
35 004	15:53:21	831	56513.0
35 004	15:53:36	832	56497.2
35 004	15:53:47	833	56457.6
35 004	15:53:59	834	56416.2
35 004	15:54:11	835	56356.4
35 004	15:54:30	936	56319.6
36 004	15:55:23	837	56405.8
36 004	15:55:53	838	56458.8
36 004	15:56:17	839	56499.6
36 004	15:56:34	840	56483.0
36 004	15:56:51	841	56495.2

36	004	15:57:06	842	56517.6
36	004	15:57:19	843	56536.6
36	004	15:57:32	844	56578.4
36	004	15:57:44	845	56473.6
36	004	15:57:55	846	56527.6
36	004	15:58:08	847	56645.2
36	004	15:58:23	848	?56798.6
36	004	15:58:36	849	56274.8
36	004	15:58:48	850	56399.8
36	004	15:59:00	851	56410.8
36	004	15:59:11	852	56440.6
36	004	15:59:26	853	56567.2
36	004	15:59:38	854	56818.8
36	004	15:59:50	855	56652.2
36	004	16:00:03	856	?56871.6
36	004	16:00:15	857	?57691.0
36	004	16:00:29	858	?56210.2
36	004	16:00:40	859	56346.8
36	004	16:00:51	860	56498.8
36	004	16:01:07	861	56559.8
36	004	16:01:30	862	56548.2
37	004	16:02:18	863	56487.2
37	004	16:02:32	864	56474.0
37	004	16:02:43	865	56388.6
37	004	16:02:55	866	?56248.0
37	004	16:03:08	867	56242.8
37	004	16:03:25	868	?56301.6
37	004	16:03:41	869	56934.6
37	004	16:03:52	870	56979.4
37	004	16:04:17	871	56678.6
37	004	16:04:29	872	?56362.4
37	004	16:04:42	873	?56103.2
37	004	16:04:55	874	?56147.6
37	004	16:05:08	875	?56113.0
37	004	16:05:22	876	56506.6
37	004	16:05:35	877	?57023.0
37	004	16:05:48	878	?56345.0
37	004	16:06:07	879	?56264.8
37	004	16:06:22	880	?56220.6
37	004	16:06:35	881	56691.6
37	004	16:06:46	882	56483.2
37	004	16:06:59	883	56376.2
37	004	16:07:11	884	?56375.6
37	004	16:07:26	885	56440.4
37	004	16:07:41	886	56364.8
37	004	16:07:55	887	56335.0
37	004	16:08:14	888	56274.6
38	004	16:12:16	889	56422.6

38 004	16:12:35	890	56313.4
38 004	16:12:46	891	56310.4
38 004	16:12:57	892	56393.6
38 004	16:13:08	893	56444.4
38 004	16:13:21	894	56406.8
38 004	16:13:34	895	56458.0
38 004	16:13:46	896	56539.8
38 004	16:13:57	897	56632.0
38 004	16:14:07	898	56601.4
38 004	16:14:20	899	56428.0
38 004	16:14:32	900	56529.0
38 004	16:14:45	901	?57682.6
38 004	16:14:59	902	?45714.8
38 004	16:15:29	903	?58727.2
38 004	16:15:58	904	?56077.0
38 004	16:16:44	905	56040.0
38 004	16:16:57	906	56347.4
38 004	16:17:09	907	?56638.4
38 004	16:17:22	908	56387.6
38 004	16:17:36	909	56379.6
38 004	16:17:48	910	56418.2
38 004	16:18:00	911	56416.6
39 004	16:18:43	912	56408.2
39 004	16:18:57	913	56353.8
39 004	16:19:09	914	56253.4
39 004	16:19:20	915	?56275.4
39 004	16:19:34	916	?56457.4
39 004	16:19:47	917	56758.8
39 004	16:19:59	918	56742.2
39 004	16:20:11	919	56761.8
39 004	16:20:24	920	56738.0
39 004	16:20:37	921	?56278.0
39 004	16:20:53	922	?56753.0
39 004	16:21:14	923	?56236.6
39 004	16:21:31	924	56310.0
39 004	16:21:44	925	56316.4
39 004	16:22:11	926	56467.8
39 004	16:22:30	927	56285.6
39 004	16:22:46	928	56349.4
39 004	16:27:01	929	56266.8
39 004	16:27:20	930	56062.6
39 004	16:27:38	931	?55808.8
39 004	16:27:53	932	56227.2
39 004	16:28:07	933	?56465.6
39 004	16:28:22	934	?57124.0
39 004	16:28:36	935	56949.6
39 004	16:28:49	936	57279.4
39 004	16:29:01	937	57488.2
39 004	16:29:24	938	56930.4

39	004	16:29:45	939	56754.8
39	004	16:29:58	940	56623.0
39	004	16:30:10	941	56547.8
40	004	16:31:17	942	56638.0
40	004	16:31:45	943	?57074.0
40	004	16:32:00	944	57311.4
40	004	16:32:13	945	56815.0
40	004	16:32:29	946	56386.0
40	004	16:32:43	947	56027.4
40	004	16:32:55	948	55981.4
40	004	16:33:07	949	?56297.8
40	004	16:33:29	950	?56441.4

DISPOSAL SITE D-3

** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HAN1

Line	Date	Time	Site	Field
0	342	09:43:04	1	?57189.4
0	342	09:43:57	2	56493.6
0	342	09:44:16	3	56909.2
0	342	09:44:50	4	?53382.2
0	342	09:45:17	5	?57737.8
0	342	09:45:49	6	?55094.6
0	342	09:46:45	7	?54731.8
0	342	09:47:30	8	?52258.6
0	342	09:48:04	9	?55268.8
0	342	09:48:41	10	?56354.0
0	342	09:49:44	11	?57640.4
0	342	09:51:23	12	?57259.8
0	342	09:52:04	13	56492.6
0	342	09:52:36	14	?56936.4
0	342	09:52:51	15	56770.0
0	342	09:53:16	16	?56281.2
0	342	09:53:41	17	?53986.2
0	342	09:54:04	18	?56007.4
0	342	09:54:21	19	56582.2
0	342	09:55:34	20	56475.8
0	342	09:55:58	21	?56413.6
0	342	09:59:24	22	55870.4
0	342	09:59:44	23	56068.6
0	342	10:00:18	24	?56727.2
0	342	10:00:46	25	?56659.4
0	342	10:01:07	26	?57082.0
0	342	10:01:24	27	56610.2
0	342	10:01:38	28	56720.6
0	342	10:01:53	29	?55459.2
0	342	10:02:22	30	?55531.2
0	342	10:02:47	31	56089.0
0	342	10:03:16	32	56309.8
0	342	10:03:36	33	56417.0
0	342	10:03:50	34	56472.6
1	342	10:09:44	35	?55173.2
1	342	10:10:41	36	?54973.8
1	342	10:11:03	37	?57299.8
1	342	10:12:35	38	?57729.4
1	342	10:12:54	39	?56854.2
1	342	10:13:14	40	56702.4
1	342	10:13:54	41	56463.2

? = High gradient reading, indicating
metal close to land surface.

1 342	10:14:11	42	?55873.4
1 342	10:14:31	43	?55534.0
1 342	10:14:52	44	?56982.6
1 342	10:15:32	45	56837.2
1 342	10:19:46	46	57428.0
1 342	10:20:00	47	?56720.6
1 342	10:20:16	48	56707.2
1 342	10:20:29	49	56865.0
1 342	10:21:00	50	?56158.6
1 342	10:21:28	51	56810.4
1 342	10:21:44	52	56820.6
1 342	10:21:57	53	?56076.2
1 342	10:22:26	54	?55987.6
1 342	10:22:47	55	?57762.2
1 342	10:23:13	56	?56423.6
1 342	10:23:29	57	?56544.0
1 342	10:23:46	58	?58139.2
1 342	10:24:21	59	?57938.4
1 342	10:24:41	60	?57341.8
1 342	10:25:18	61	?57289.4
1 342	10:25:42	62	?57024.2
1 342	10:26:03	63	?54568.8
1 342	10:26:43	64	?53985.6
1 342	10:27:10	65	?54843.8
1 342	10:27:30	66	?57004.4
1 342	10:27:45	67	?58346.0
2 342	10:28:47	68	?56723.8
2 342	10:29:14	69	?55611.0
2 342	10:29:29	70	56108.2
2 342	10:30:01	71	?56869.6
2 342	10:30:22	72	56479.2
2 342	10:30:42	73	?56772.2
2 342	10:31:12	74	?57423.0
2 342	10:31:34	75	?57233.2
2 342	10:31:57	76	?57683.8
2 342	10:32:12	77	?56513.6
2 342	10:32:44	78	?57213.4
2 342	10:32:59	79	56587.0
2 342	10:33:14	80	56336.2
2 342	10:33:35	81	?56594.0
2 342	10:33:50	82	56278.2
2 342	10:34:03	83	?56672.4
2 342	10:34:19	84	?56855.2
2 342	10:34:50	85	?57718.2
2 342	10:35:10	86	56867.8
2 342	10:35:28	87	?55361.6
2 342	10:35:44	88	?56464.6
2 342	10:35:56	89	?57433.0

2 342	10:36:11	90	?57563.8
2 342	10:36:33	91	56790.8
2 342	10:36:53	92	?57563.8
2 342	10:37:11	93	?56729.0
2 342	10:37:25	94	56776.2
2 342	10:37:38	95	56418.6
2 342	10:37:51	96	56469.2
2 342	10:38:05	97	56867.4
2 342	10:38:27	98	?57197.8
2 342	10:38:53	99	?57892.2
2 342	10:39:15	100	?52289.0
2 342	10:39:53	101	?56185.2
3 342	10:41:40	102	?55989.8
3 342	10:42:08	103	?56469.8
3 342	10:42:31	104	?56853.0
3 342	10:43:05	105	?56068.2
3 342	10:43:21	106	?56744.2
3 342	10:43:35	107	?57825.6
3 342	10:43:54	108	?56673.4
3 342	10:44:27	109	?56269.6
3 342	10:44:40	110	56694.2
3 342	10:44:54	111	?56217.2
3 342	10:45:11	112	?56276.4
3 342	10:45:24	113	56909.6
3 342	10:45:39	114	?56984.8
3 342	10:47:01	115	?56577.0
3 342	10:47:14	116	?56909.8
3 342	10:47:26	117	?56299.6
3 342	10:47:40	118	56338.8
3 342	10:48:05	119	?56423.6
3 342	10:48:21	120	56938.2
3 342	10:48:43	121	56894.4
3 342	10:48:56	122	56642.4
3 342	10:49:11	123	56678.0
3 342	10:49:29	124	?56085.4
3 342	10:49:57	125	?56090.2
3 342	10:50:13	126	56236.6
3 342	10:50:27	127	56182.4
3 342	10:50:40	128	?56066.8
3 342	10:51:01	129	56523.6
3 342	10:51:18	130	?56655.2
3 342	10:51:35	131	?56487.4
3 342	10:51:50	132	56639.0
3 342	10:52:13	133	?55811.4
3 342	10:52:28	134	?56272.0
3 342	10:53:05	135	?55892.0
4 342	10:54:30	136	?57429.6
4 342	10:54:55	137	?58376.8
4 342	10:55:17	138	?56691.4

4 342	10:55:32	139	?56889.4
4 342	10:55:54	140	?57078.4
4 342	10:56:12	141	?56868.6
4 342	10:56:27	142	56792.0
4 342	10:56:42	143	56441.2
4 342	10:56:55	144	56783.4
4 342	10:57:08	145	56192.0
4 342	10:57:22	146	55942.4
4 342	10:57:36	147	?56073.4
4 342	10:57:49	148	56673.4
4 342	10:58:03	149	?56824.8
4 342	10:58:20	150	?55945.8
4 342	10:58:36	151	?55969.6
4 342	10:58:50	152	?57156.8
4 342	10:59:20	153	?55528.4
4 342	10:59:37	154	56158.0
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4 342	11:00:03	156	56450.8
4 342	11:00:16	157	56337.6
4 342	11:00:29	158	?56701.8
4 342	11:00:43	159	56410.8
4 342	11:00:57	160	?56980.2
4 342	11:01:10	161	56913.6
4 342	11:01:22	162	56491.4
4 342	11:01:35	163	56403.8
4 342	11:01:53	164	?56822.0
4 342	11:02:06	165	?56958.4
4 342	11:02:20	166	56802.6
4 342	11:02:36	167	?57381.8
4 342	11:02:57	168	57187.6
4 342	11:03:14	169	?57279.2
4 342	11:03:28	170	?56589.2
4 342	11:03:47	171	?57122.6
4 342	11:05:17	172	56029.0
5 342	11:09:38	173	55923.2
5 342	11:10:04	174	?55497.4
5 342	11:10:19	175	?55307.6
5 342	11:10:33	176	?54462.8
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5 342	11:11:24	179	57647.4
5 342	11:11:39	180	?56589.8
5 342	11:11:59	181	?56322.2
5 342	11:12:43	182	?56057.8
5 342	11:12:56	183	?56001.6
5 342	11:13:08	184	?56665.8
5 342	11:13:21	185	?58265.8
5 342	11:13:42	186	?57705.6

5 342	11:13:56	187	56706.4
5 342	11:14:12	188	55555.6
5 342	11:14:26	189	56955.8
5 342	11:14:38	190	?56305.8
5 342	11:14:58	191	56420.4
5 342	11:15:19	192	?56332.0
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5 342	11:15:50	194	56328.6
5 342	11:16:02	195	?56182.0
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5 342	11:17:34	201	?57148.8
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5 342	11:18:05	203	?56511.6
5 342	11:18:17	204	56577.8
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5 342	11:18:56	207	56605.8
5 342	11:19:10	208	56862.0
5 342	11:19:31	209	?56277.8
5 342	11:19:46	210	?56495.0
5 342	11:20:08	211	56810.8
5 342	11:20:21	212	56389.0
5 342	11:20:40	213	56292.6
5 342	11:20:52	214	56918.4
5 342	11:21:09	215	?57209.4
6 342	11:22:43	216	?58544.2
6 342	11:23:03	217	?56374.4
6 342	11:23:20	218	?56456.2
6 342	11:23:37	219	?57493.8
6 342	11:23:58	220	57033.6
6 342	11:24:45	221	56219.2
6 342	11:24:58	222	56276.8
6 342	11:25:19	223	?56500.4
6 342	11:25:31	224	?56875.8
6 342	11:25:46	225	?56232.4
6 342	11:26:00	226	?56653.8
6 342	11:26:14	227	?56800.4
6 342	11:26:28	228	56533.0
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6 342	11:26:59	230	?57311.4
6 342	11:27:30	231	56674.4
6 342	11:27:44	232	56588.8
6 342	11:27:58	233	56335.2
6 342	11:28:11	234	56379.6

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6 342	11:28:38	236	?56658.2
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6 342	11:29:39	240	56464.6
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6 342	12:53:00	243	?56701.0
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6 342	12:53:49	246	?56706.8
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6 342	12:54:52	250	?56832.8
6 342	12:55:15	251	?57465.6
6 342	12:55:31	252	?57548.6
6 342	12:55:44	253	?56894.2
6 342	12:56:07	254	?56313.4
6 342	12:56:22	255	?56453.6
6 342	12:56:39	256	?56659.0
7 342	12:58:24	257	?55686.8
7 342	12:59:07	258	57379.2
7 342	12:59:23	259	57508.2
7 342	12:59:58	260	?58152.8
7 342	13:00:14	261	57338.0
7 342	13:00:27	262	57201.8
7 342	13:00:45	263	?56718.4
7 342	13:01:06	264	56551.6
7 342	13:01:43	265	?56431.2
7 342	13:01:55	266	56647.8
7 342	13:02:08	267	56546.2
7 342	13:02:20	268	56398.6
7 342	13:02:36	269	?55971.0
7 342	13:02:53	270	?56589.2
7 342	13:03:13	271	56656.8
7 342	13:03:27	272	56880.0
7 342	13:03:41	273	?56387.8
7 342	13:04:00	274	?56625.6
7 342	13:04:16	275	56623.8
7 342	13:04:35	276	56457.4
7 342	13:04:48	277	?56071.8
7 342	13:05:00	278	56676.4
7 342	13:05:12	279	56574.6
7 342	13:05:25	280	56470.0
7 342	13:05:36	281	56602.0
7 342	13:05:49	282	?56922.8

7	342	13:06:03	283	56498.6
7	342	13:06:27	284	56252.6
7	342	13:06:51	285	?56382.6
7	342	13:07:09	286	56510.0
7	342	13:07:28	287	56319.0
7	342	13:07:40	288	56263.8
7	342	13:07:56	289	?56028.2
7	342	13:08:13	290	?56786.2
7	342	13:08:31	291	56678.8
7	342	13:08:50	292	56199.4
7	342	13:09:03	293	56259.0
7	342	13:09:21	294	?56374.0
7	342	13:09:45	295	56397.2
7	342	13:10:05	296	?56754.6
8	342	13:11:40	297	?56564.4
8	342	13:12:01	298	?55582.0
8	342	13:12:22	299	?56554.8
8	342	13:12:58	300	?56698.4
8	342	13:13:15	301	56053.8
8	342	13:13:27	302	56256.0
8	342	13:13:48	303	56388.0
8	342	13:14:04	304	56779.8
8	342	13:14:20	305	?57550.2
8	342	13:14:38	306	56585.2
8	342	13:14:56	307	?56286.4
8	342	13:15:16	308	?56526.6
8	342	13:15:35	309	56681.2
8	342	13:16:04	310	56500.2
8	342	13:16:20	311	?57055.6
8	342	13:16:37	312	?57451.6
8	342	13:16:50	313	?57028.0
8	342	13:17:04	314	?56078.0
8	342	13:17:17	315	55967.0
8	342	13:17:31	316	56357.6
8	342	13:17:45	317	56542.6
8	342	13:17:57	318	56517.4
8	342	13:18:11	319	?55836.2
8	342	13:18:31	320	?56431.2
8	342	13:18:52	321	?57359.4
8	342	13:19:12	322	?56660.6
8	342	13:19:26	323	?57284.2
8	342	13:19:42	324	?57727.2
8	342	13:20:00	325	?56116.4
8	342	13:20:12	326	?56668.8
8	342	13:20:26	327	56340.4
8	342	13:20:38	328	56640.6
8	342	13:20:50	329	?57357.8
8	342	13:21:15	330	?56627.0

8 342	13:21:28	331	256849.0
8 342	13:21:55	332	257175.0
8 342	13:22:14	333	56971.6
8 342	13:22:29	334	256051.0
8 342	13:22:44	335	256423.6
8 342	13:23:05	336	256496.6

** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HAN2

Line	Date	Time	Site	Field
9	342	13:24:50	338	57063.0
9	342	13:25:11	339	56811.8
9	342	13:25:30	340	?57349.8
9	342	13:25:57	341	?56424.0
9	342	13:26:10	342	56983.0
9	342	13:26:58	343	?56298.4
9	342	13:27:54	344	56607.8
9	342	13:28:07	345	56646.4
9	342	13:28:18	346	56378.0
9	342	13:28:31	347	?56162.8
9	342	13:28:44	348	56584.0
9	342	13:28:57	349	56713.6
9	342	13:29:11	350	56506.6
9	342	13:29:28	351	?56929.2
9	342	13:29:46	352	?55637.8
9	342	13:30:21	353	56431.4
9	342	13:30:37	354	56834.6
9	342	13:30:51	355	56643.0
9	342	13:31:04	356	56654.4
9	342	13:31:17	357	57063.0
9	342	13:31:31	358	56263.4
9	342	13:31:44	359	?56350.4
9	342	13:31:58	360	56235.0
9	342	13:32:20	361	?56598.4
9	342	13:32:38	362	?57206.8
9	342	13:32:53	363	56648.8
9	342	13:33:17	364	56346.4
9	342	13:33:30	365	?56049.2
9	342	13:33:44	366	?56361.2
9	342	13:33:57	367	?58096.0
9	342	13:34:32	368	?56614.6
9	342	13:34:44	369	56211.6
9	342	13:34:55	370	?55845.2
9	342	13:35:14	371	56697.8
9	342	13:35:34	372	?56777.2
9	342	13:35:50	373	?57053.8
9	342	13:36:19	374	?59400.0
9	342	13:36:39	375	?57713.6
10	342	13:37:51	376	?55518.8
10	342	13:38:08	377	56500.8
10	342	13:38:26	378	56959.2
10	342	13:38:57	379	?55863.4

10 342	13:39:17	380	56266.6
10 342	13:39:34	381	56378.8
10 342	13:39:47	382	56396.0
10 342	13:40:06	383	?56952.2
10 342	13:40:20	384	56785.8
10 342	13:40:36	385	?56138.2
10 342	13:40:53	386	?54937.4
10 342	13:41:09	387	?56141.0
10 342	13:41:23	388	56496.6
10 342	13:41:42	389	?56843.8
10 342	13:42:04	390	?57552.8
10 342	13:42:17	391	?57745.6
10 342	13:42:30	392	56420.4
10 342	13:42:43	393	?56477.4
10 342	13:43:01	394	55824.0
10 342	13:43:18	395	?55519.4
10 342	13:43:31	396	?56383.8
10 342	13:43:47	397	?56390.4
10 342	13:44:02	398	?56783.0
10 342	13:48:04	399	56697.2
10 342	13:48:20	400	56239.0
10 342	13:48:33	401	?56861.2
10 342	13:48:46	402	?56934.6
10 342	13:48:59	403	?56180.4
10 342	13:49:14	404	?56521.0
10 342	13:49:28	405	56526.4
10 342	13:49:41	406	56607.6
10 342	13:49:53	407	?56951.8
10 342	13:50:07	408	?56204.2
10 342	13:50:33	409	56614.0
10 342	13:50:46	410	?56208.2
10 342	13:51:03	411	56187.4
10 342	13:51:18	412	56657.4
10 342	13:51:31	413	56664.8
10 342	13:51:57	414	56765.4
10 342	13:52:19	415	?56892.4
10 342	13:52:48	416	?56863.0
10 342	13:53:08	417	56144.4
11 342	13:55:27	418	56133.4
11 342	13:55:53	419	?56218.4
11 342	13:56:28	420	?57249.0
11 342	13:56:55	421	57257.0
11 342	13:57:22	422	56858.0
11 342	13:57:36	423	56361.2
11 342	13:57:48	424	?56237.8
11 342	13:58:03	425	?56180.6
11 342	13:58:22	426	56716.0
11 342	13:58:40	427	?56337.2

11	342	13:58:59	428	56719.4
11	342	14:11:10	429	?57062.0
11	342	14:11:24	430	56549.0
11	342	14:11:44	431	?56285.2
11	342	14:11:57	432	56219.8
11	342	14:12:11	433	?55928.8
11	342	14:12:25	434	56774.2
11	342	14:12:38	435	?56897.4
11	342	14:12:50	436	?55794.8
11	342	14:13:04	437	?57424.6
11	342	14:13:19	438	57115.8
11	342	14:13:39	439	56594.6
11	342	14:13:51	440	?56315.4
11	342	14:14:28	441	56440.0
11	342	14:14:44	442	?56378.6
11	342	14:15:06	443	?56767.4
11	342	14:15:18	444	?57284.6
11	342	14:15:33	445	57153.4
11	342	14:15:51	446	?57308.2
11	342	14:16:17	447	57002.6
11	342	14:16:38	448	?56425.8
11	342	14:16:56	449	56195.2
11	342	14:17:09	450	56180.4
11	342	14:17:24	451	?55954.6
11	342	14:17:37	452	?55689.8
11	342	14:17:51	453	?55713.8
11	342	14:18:08	454	?55789.2
11	342	14:18:24	455	?57152.2
11	342	14:18:44	456	?57243.4
11	342	14:18:59	457	?56833.2
11	342	14:19:19	458	57361.6
12	342	14:56:18	459	?57435.2
12	342	14:56:47	460	56677.4
12	342	14:57:42	461	?55870.8
12	342	14:58:02	462	?56787.8
12	342	14:58:14	463	?57095.0
12	342	14:58:27	464	?55758.0
12	342	14:58:41	465	?56517.6
12	342	14:58:53	466	56288.2
12	342	14:59:05	467	56116.6
12	342	14:59:17	468	56559.0
12	342	14:59:36	469	56505.2
12	342	14:59:48	470	56338.2
12	342	15:00:04	471	56420.0
12	342	15:00:24	472	?56963.8
12	342	15:00:36	473	?57180.0
12	342	15:00:54	474	56496.4
12	342	15:01:07	475	56584.2

12	342	15:01:19	476	?56104.4
12	342	15:01:31	477	?56617.8
12	342	15:02:01	478	?55663.0
12	342	15:02:14	479	56425.0
12	342	15:02:26	480	?57493.4
12	342	15:02:43	481	56613.8
12	342	15:02:55	482	?57238.6
12	342	15:03:07	483	?56184.8
12	342	15:03:20	484	56449.6
12	342	15:03:32	485	?55806.4
12	342	15:03:50	486	?55534.6
12	342	15:04:03	487	56276.4
12	342	15:04:16	488	56413.4
12	342	15:04:29	489	56229.0
12	342	15:04:40	490	56479.6
12	342	15:04:55	491	56704.0
12	342	15:05:09	492	?57357.2
12	342	15:05:22	493	?56943.8
12	342	15:05:35	494	?55664.2
12	342	15:05:47	495	?56668.2
12	342	15:06:00	496	56496.8
12	342	15:06:14	497	56816.0
12	342	15:06:27	498	56407.6
12	342	15:06:38	499	56536.8
12	342	15:06:52	500	56727.0
12	342	15:07:08	501	56456.0
12	342	15:07:23	502	?55426.0
13	342	15:11:47	503	56386.2
13	342	15:12:49	504	56286.2
13	342	15:13:10	505	56314.0
13	342	15:13:29	506	56306.6
13	342	15:13:52	507	56316.8
13	342	15:14:08	508	56220.8
13	342	15:14:30	509	56310.6
13	342	15:14:46	510	56110.2
13	342	15:15:26	511	56218.4
13	342	15:15:39	512	?57118.8
13	342	15:16:00	513	?55953.4
13	342	15:17:07	514	56313.6
13	342	15:17:20	515	?56625.6
13	342	15:17:32	516	?56773.6
13	342	15:17:45	517	?56987.2
13	342	15:18:00	518	57293.6
13	342	15:18:14	519	57052.4
13	342	15:18:27	520	?57051.2
13	342	15:18:46	521	?58059.8
13	342	15:19:02	522	?56587.2
13	342	15:19:16	523	?56122.2

13	342	15:19:33	524	?256086.6
13	342	15:19:46	525	56397.6
13	342	15:19:57	526	?257958.8
13	342	15:20:10	527	?258423.2
13	342	15:20:25	528	?256501.2
13	342	15:20:37	529	56951.2
13	342	15:20:52	530	?256329.4
13	342	15:21:09	531	56526.2
13	342	15:21:22	532	56440.4
13	342	15:21:41	533	?256158.8
13	342	15:21:57	534	56417.8
13	342	15:22:10	535	?256203.0
13	342	15:22:24	536	?256290.6
13	342	15:22:36	537	?256118.6
13	342	15:22:58	538	?256302.2
13	342	15:23:13	539	?256555.0
13	342	15:23:27	540	?256423.6
13	342	15:23:44	541	56631.4
13	342	15:23:56	542	56461.2
13	342	15:24:10	543	?256433.4
13	342	15:24:26	544	56650.6
13	342	15:24:38	545	56500.0
13	342	15:24:50	546	56552.4
13	342	15:25:06	547	56132.0
13	342	15:25:17	548	?255317.2
13	342	15:25:30	549	?255699.2
13	342	15:25:45	550	?257543.2
13	342	15:25:58	551	56205.6
13	342	15:26:11	552	?256614.8
13	342	15:26:30	553	?255574.6
14	342	15:28:42	554	?256922.2
14	342	15:28:57	555	?257678.8
14	342	15:29:11	556	?252155.0
14	342	15:29:23	557	?255682.8
14	342	15:29:37	558	56218.4
14	342	15:29:50	559	56278.8
14	342	15:30:05	560	?256584.6
14	342	15:30:20	561	56586.0
14	342	15:30:33	562	56418.0
14	342	15:30:45	563	?256471.8
14	342	15:30:58	564	?256686.8
14	342	15:31:14	565	56520.6
14	342	15:31:27	566	56621.2
14	342	15:31:43	567	?256740.8
14	342	15:31:56	568	56540.8
14	342	15:32:09	569	?257184.2
14	342	15:32:24	570	56482.4
14	342	15:32:38	571	?256631.8

14	342	15:32:52	572	?56133.8
14	342	15:33:04	573	?56767.6
14	342	15:33:17	574	56550.6
14	342	15:37:55	575	?56607.0
14	342	15:38:07	576	?56343.0
14	342	15:38:24	577	?57613.0
14	342	15:38:37	578	56907.4
14	342	15:38:53	579	?57388.0
14	342	15:39:09	580	?55786.0
14	342	15:39:25	581	?55944.2
14	342	15:39:39	582	56341.2
14	342	15:39:52	583	56267.6
14	342	15:40:04	584	?56471.8
14	342	15:40:19	585	56366.8
14	342	15:40:31	586	?56966.0
14	342	15:40:48	587	?57112.0
14	342	15:41:04	588	?56448.6
14	342	15:41:18	589	56713.8
14	342	15:41:31	590	56942.4
14	342	15:41:49	591	56807.0
14	342	15:42:02	592	?57249.6
14	342	15:42:14	593	?57823.4
14	342	15:42:28	594	56895.0
14	342	15:42:48	595	56707.2
14	342	15:43:03	596	56412.2
14	342	15:43:15	597	56017.8
14	342	15:43:28	598	56457.6
14	342	15:43:48	599	56739.2
14	342	15:44:15	600	56672.6
14	342	15:44:34	601	?56316.4
14	342	15:44:55	602	?56640.8
14	342	15:45:20	603	56639.0
14	342	15:45:39	604	56386.0
14	342	15:46:10	605	56314.6
14	342	15:46:57	606	56362.8
14	342	15:47:45	607	56453.8
14	342	15:48:09	608	?56488.4
14	342	15:49:49	609	?56532.6
14	342	15:50:43	610	56472.6
14	342	15:51:08	611	?56430.0
14	342	15:51:32	612	56507.8
14	342	15:51:48	613	56515.2
14	342	15:52:06	614	?56594.0
14	342	15:52:37	615	56598.0
14	342	15:52:54	616	?56078.2
14	342	15:53:14	617	56394.2
14	342	15:53:31	618	56517.2
14	342	15:53:47	619	56569.8

14 342	15:5- 40	620	56582.4
14 342	15:55:02	621	56596.8
14 342	15:55:16	622	56535.6
14 342	15:55:29	623	56448.8
14 342	15:55:45	624	56540.2
14 342	15:56:08	625	?56558.0
14 342	15:56:35	626	56624.8
14 342	15:56:49	627	56577.2
14 342	15:57:05	628	56571.4
14 342	15:57:22	629	56579.6
14 342	15:57:43	630	56578.4
14 342	15:58:09	631	56623.4
14 342	16:01:08	632	56478.0
14 342	16:01:36	633	56503.8
14 342	16:02:14	634	56578.8
14 342	16:02:31	635	56583.6
14 342	16:02:44	636	56594.8
14 342	16:02:58	637	56603.6
14 342	16:03:22	638	56610.2
14 342	16:03:35	639	56592.0
14 342	16:03:50	640	56610.0
14 342	16:04:10	641	56589.6
14 342	16:04:29	642	56602.2
15 342	16:09:57	643	56547.2
15 342	16:10:16	644	56538.8
15 342	16:10:39	645	56548.6
15 342	16:11:07	646	56547.6
15 342	16:11:21	647	56532.4
15 342	16:11:38	648	56527.2
15 342	16:11:52	649	56534.0
15 342	16:13:05	650	?56542.4
15 342	16:13:31	651	?56568.2
15 342	16:13:49	652	?56565.6
15 342	16:14:17	653	56534.4
15 342	16:14:34	654	56534.0
15 342	16:14:50	655	56524.8
15 342	16:15:57	656	56492.0
15 342	16:16:33	657	56548.2
15 342	16:16:58	658	56566.6
15 342	16:17:19	659	56589.2
15 342	16:18:05	660	56549.6

** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HAN3

Line	Date	Time	Site	Field
15	000	08:30:18	1	56531.0
	000	08:30:57	2	56470.6
	000	08:31:13	3	56431.0
	000	08:31:30	4	56402.4
	000	08:31:48	5	56406.2
	000	08:32:15	6	56472.8
	000	08:32:33	7	56447.6
	000	08:32:48	8	56534.4
	000	08:33:21	9	?56350.4
	000	08:33:40	10	?55989.0
	000	08:34:16	11	56769.4
	000	08:34:42	12	?56345.4
	000	08:34:56	13	?56071.2
	000	08:35:11	14	?56284.4
	000	08:35:32	15	56475.0
	000	08:36:03	16	?55829.6
	000	08:36:19	17	?55839.2
	000	08:36:37	18	?56331.8
	000	08:37:11	19	56698.4
	000	08:37:26	20	56836.0
	000	08:38:16	21	57076.8
	000	08:38:38	22	?56415.6
	000	08:38:56	23	56677.2
	000	08:39:11	24	?56663.2
	000	08:39:23	25	56810.8
	000	08:39:37	26	57326.6
	000	08:39:51	27	?56807.0
	000	08:40:28	28	56816.4
	000	08:40:41	29	56610.2
	000	08:40:54	30	?56346.8
	000	08:41:16	31	?56126.4
	000	08:41:43	32	56585.2
	000	08:41:56	33	56606.8
	000	08:42:11	34	56530.4
	000	08:45:00	35	56677.4
	000	08:45:15	36	?56518.0
	000	08:45:30	37	56341.6
	000	08:45:46	38	?55565.6
	000	08:46:07	39	?57370.8
	000	08:46:22	40	57110.6
	000	08:46:45	41	56696.2
15	000	08:47:23	42	?56089.8

15	000	08:47:36	43	56209.4
	000	08:47:49	44	56293.8
	000	08:48:00	45	?56110.8
	000	08:48:12	46	56475.8
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16 000	09:19:08	129	56580.0
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17 000	09:37:44	162	?56458.8
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17	000	10:20:16	213	56657.2
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18	000	10:23:25	218	56438.6
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18 000	10:47:55	286	?56593.2
18 000	10:48:15	287	56575.6
18 000	10:48:45	288	?56589.0
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18 000	10:59:50	291	?56622.8
18 000	11:00:37	292	?56618.2
18 000	11:00:58	293	?56634.0
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18 000	11:01:48	296	?56611.4
18 000	11:02:05	297	?56526.6
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18 000	11:04:22	301	?56596.0
18 000	11:05:10	302	?56591.2
18 000	11:05:28	303	?56613.2
18 000	11:06:05	304	?56635.4
18 000	11:06:52	305	?56623.8
18 000	11:07:08	306	?56610.2
18 000	11:07:41	307	?56617.0
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18 000	11:09:34	312	?56621.4
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18 000	11:10:53	317	?56616.6
18 000	11:11:20	318	?56619.0
18 000	11:11:34	319	?56630.4
18 000	11:11:48	320	?56629.4
18 000	11:12:07	321	?56611.6
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	56580.0
	56609.0
	56546.4
	56556.8
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	56544.6
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19	57422.8

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19 000	13:19:18	336	?56502.6
19 000	13:19:34	337	?56488.8
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19 000	13:26:58	355	?56377.6
19 000	13:27:18	356	?56367.8
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** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HAN4

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20	001	08:47:30	18	56312.8
20	001	08:47:57	19	56318.6
20	001	08:49:42	20	56435.4
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20	001	08:53:12	29	?56522.6
20	001	08:53:36	30	?56739.0
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20	001	08:54:35	33	56374.4
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20	001	08:55:19	36	?56830.0
20	001	08:55:34	37	?56921.4
20	001	08:55:46	38	56793.0
20	001	08:55:59	39	56675.8
20	001	08:56:15	40	56149.6
20	001	08:56:28	41	56027.4
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20 001	08:57:50	46	?57133.6
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20 001	08:59:18	52	56520.0
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20 001	09:12:06	75	56597.0
20 001	09:12:23	76	56678.4
20 001	09:12:36	77	?57161.0
20 001	09:12:57	78	57021.6
20 001	09:13:18	79	56488.8
20 001	09:13:34	80	56612.2
20 001	09:15:11	81	?55917.2
20 001	09:15:35	82	55962.2
20 001	09:15;51	83	56364.4
20 001	09:16:06	84	56508.8
20 001	09:16:29	85	56508.0
20 001	09:16:51	86	56527.4
20 001	09:17:12	87	56586.6
20 001	09:17:29	88	56584.2
20 001	09:17:46	89	56584.2

ADDITIONAL DATA GATHERED
AT NORTH END OF LINE # 21

21	353	111554	28?564774
21	353	111647	29 564958
21	353	111703	30 565030
21	353	111715	31 564936
21	353	111728	32 565012
21	353	111741	33 565010
21	353	111800	34 564852
21	353	111819	35 564872
21	353	111835	36 564814
21	353	111902	37 564818
21	353	111915	38?562486
21	353	111943	39?564122
21	353	112002	40?565718
21	353	112016	41?566508
21	353	112109	42 565470
21	353	112237	43 565106
21	353	112251	44 564898
21	353	112309	45 565424
21	353	112324	46 564492
21	353	112342	47 564000
21	353	112354	48?562854

20 001	09:18:05	90	56598.8
20 001	09:18:52	91	56571.4
20 001	09:19:11	92	56559.4
20 001	09:19:25	93	56585.6
20 001	09:19:42	94	56613.2
20 001	09:20:00	95	56560.2
20 001	09:20:30	96	56530.0
20 001	09:20:44	97	56580.2
20 001	09:20:57	98	56581.4
20 001	09:21:10	99	56582.0
20 001	09:21:34	100	56591.2
20 001	09:21:48	101	56581.8
20 001	09:22:02	102	56577.6
20 001	09:22:34	103	56579.6
20 001	09:23:05	104	56599.2
20 001	09:23:20	105	?56722.4
20 001	09:23:35	106	56628.0
20 001	09:23:51	107	56569.8
21 001	09:27:42	108	?56221.2
21 001	09:28:26	109	56432.2
21 001	09:28:44	110	?56331.6
21 001	09:29:00	111	?56409.4
21 001	09:29:15	112	56893.4
21 001	09:29:30	113	?56592.0
21 001	09:29:44	114	56982.2
21 001	09:30:01	115	56947.0
21 001	09:30:16	116	56606.6
21 001	09:30:50	117	56502.2
21 001	09:31:17	118	?56199.0
21 001	09:35:04	119	?56200.0
21 001	09:35:34	120	56496.4
21 001	09:35:48	121	56491.6
21 001	09:36:02	122	56580.0
21 001	09:36:15	123	56556.2
21 001	09:36:30	124	56483.0
21 001	09:36:50	125	56473.8
21 001	09:37:03	126	56472.6
21 001	09:37:17	127	56555.8
21 001	09:37:32	128	56564.8
21 001	09:38:04	129	?56407.6
21 001	09:38:21	130	56694.8
21 001	09:38:34	131	56520.0
21 001	09:38:50	132	56482.4
21 001	09:39:04	133	56463.8
21 001	09:39:19	134	56458.2
21 001	09:39:32	135	56436.4
21 001	09:39:59	136	56422.8
21 001	09:40:14	137	56411.0
21 001	09:40:30	138	56418.6

21	001	09:40:46	139	56410.6
21	001	09:41:00	140	56395.0
21	001	09:41:12	141	56388.6
21	001	09:41:24	142	56415.4
21	001	09:41:39	143	56511.4
21	001	09:41:50	144	?56311.0
21	001	09:42:05	145	56457.4
21	001	09:42:17	146	55976.8
21	001	09:42:31	147	?55884.4
21	001	09:42:49	148	?55335.8
21	001	09:43:14	149	?57676.0
21	001	09:43:29	150	?57042.4
21	001	09:43:41	151	?56966.8
21	001	09:43:55	152	57709.0
21	001	09:44:07	153	57726.6
21	001	09:44:34	154	?57524.6
21	001	09:44:52	155	?56743.2
21	001	09:45:07	156	?56321.8
21	001	09:45:20	157	?55939.4
21	001	09:45:40	158	?55792.8
21	001	09:46:23	159	56438.8
21	001	09:46:38	160	?56488.6
21	001	09:46:57	161	?56834.0
21	001	09:47:13	162	?56157.0
21	001	09:47:27	163	?56215.4
21	001	09:47:47	164	56762.8
21	001	09:48:11	165	?56186.4
21	001	09:48:36	166	56798.2
21	001	09:48:50	167	56900.8
21	001	09:49:08	168	?56474.2
21	001	09:49:36	169	56461.4
21	001	09:49:53	170	56573.0
21	001	09:50:10	171	56487.8
21	001	09:50:24	172	56296.2
21	001	09:50:36	173	?57024.8
21	001	09:50:59	174	?55837.0
21	001	09:51:14	175	55942.4
21	001	09:51:27	176	?55652.6
21	001	09:51:50	177	?56796.6
21	001	09:52:13	178	?55988.8
21	001	09:52:49	179	?56470.2
21	001	09:53:09	180	?56497.6
21	001	09:53:27	181	?58225.0
21	001	09:53:47	182	?57352.6
21	001	09:54:04	183	57256.4
21	001	09:54:25	184	?56957.2
21	001	09:54:46	185	56705.0
21	001	09:55:06	186	?56508.4

21 001	09:55:21	187	?56598.6
21 001	09:55:39	188	56842.2
22 001	10:02:26	189	56659.4
22 001	10:03:20	190	56883.8
22 001	10:03:59	191	?57470.2
22 001	10:04:24	192	57338.2
22 001	10:04:40	193	?56425.2
22 001	10:05:16	194	56426.0
22 001	10:05:36	195	?56096.2
22 001	10:05:57	196	?56875.8
22 001	10:06:50	197	?57320.0
22 001	10:07:19	198	56284.4
22 001	10:07:42	199	?55380.4
22 001	10:08:04	200	55921.6
22 001	10:08:26	201	56057.6
22 001	10:08:49	202	?56331.2
22 001	10:09:13	203	55988.4
22 001	10:09:31	204	55933.0
22 001	10:09:46	205	56210.0
22 001	10:10:06	206	?56580.2
22 001	10:10:27	207	56132.2
22 001	10:10:39	208	56206.6
22 001	10:10:53	209	?56556.6
22 001	10:11:09	210	56478.0
22 001	10:11:22	211	?56968.2
22 001	10:11:38	212	?56441.8
22 001	10:11:52	213	56372.6
22 001	10:12:05	2.4	56126.6
22 001	10:12:17	215	56048.6
22 001	10:12:31	216	56204.0
22 001	10:12:53	217	56455.0
22 001	10:13:04	218	?57102.6
22 001	10:13:19	219	57054.6
22 001	10:13:31	220	?57660.8
22 001	10:13:48	221	?57580.8
22 001	10:14:03	222	?58235.8
22 001	10:14:22	223	?58606.6
22 001	10:14:50	224	?57302.2
22 001	10:15:05	225	?56219.8
22 001	10:15:22	226	55522.6
22 001	10:15:41	227	55864.6
22 001	10:15:58	228	?56214.8
22 001	10:16:10	229	56385.6
22 001	10:16:29	230	56493.8
22 001	10:16:42	231	56413.8
22 001	10:16:56	232	56256.6
22 001	10:17:09	233	56364.6
22 001	10:17:25	234	56414.0

22 001	10:17:36	235	56456.6
22 001	10:17:50	236	56474.6
22 001	10:18:02	237	56485.0
22 001	10:18:16	238	56499.6
22 001	10:18:29	239	56502.4
22 001	10:18:51	240	56507.8
22 001	10:19:04	241	56529.4
22 001	10:19:26	242	56535.4
22 001	10:19:38	243	56541.0
22 001	10:19:51	244	56546.8
22 001	10:20:13	245	56575.0
22 001	10:20:27	246	56599.6
22 001	10:20:42	247	56610.8
22 001	10:21:04	248	56621.0
22 001	10:21:15	249	56516.0
22 001	10:21:28	250	56538.2
22 001	10:21:47	251	56548.6
22 001	10:22:01	252	56572.6
22 001	10:22:15	253	56558.4
22 001	10:22:32	254	56562.4
22 001	10:22:47	255	56524.4
22 001	10:23:02	256	56438.4
22 001	10:23:41	257	?56183.2
22 001	10:24:01	258	?56498.0
22 001	10:24:16	259	?56745.6
22 001	10:24:38	260	?56920.4
22 001	10:24:56	261	56903.0
22 001	10:25:16	262	56831.4
22 001	10:25:30	263	?56389.4
22 001	10:26:01	264	56523.2
22 001	10:26:47	265	56398.6
22 001	10:28:13	266	56352.4
22 001	10.28:40	267	56427.4
22 001	10:28:53	268	56479.6
22 001	10:29:10	269	56532.0
22 001	10:29:48	270	56550.6
22 001	10:30:08	271	56587.2
22 001	10:30:30	272	56569.0
22 001	10:30:45	273	56613.6
22 001	10:30:57	274	56695.6
22 001	10:31:49	275	56661.2
22 001	10:32:03	276	56593.0
22 001	10:32:47	277	56497.2
22 001	10:33:05	278	56741.4
22 001	10:33:33	279	56508.8
22 001	10:33:49	280	56540.8
22 001	10:34:08	281	56562.2
22 001	10:34:25	282	56575.6

22 001	10:34:41	283	56566.6
22 001	10:34:57	284	56574.0
22 001	10:35:14	285	56586.4
22 001	10:35:27	286	56576.0
22 001	10:35:39	287	56570.0
22 001	10:35:52	288	56572.6
22 001	10:36:04	289	56570.2
22 001	10:36:16	290	56570.8
22 001	10:36:37	291	56579.0
22 001	10:36:49	292	56595.4
22 001	10:37:01	293	56567.6
22 001	10:37:13	294	56563.4
22 001	10:37:26	295	56575.2
22 001	10:37:39	296	56581.8
22 001	10:37:53	297	56559.8
22 001	10:38:10	298	56591.4
22 001	10:38:23	299	56603.2
23 001	10:44:01	300	56489.6
23 001	10:44:18	301	56482.4
23 001	10:44:33	302	56492.8
23 001	10:44:45	303	56504.4
23 001	10:45:11	304	56495.8
23 001	10:45:25	305	56480.8
23 001	10:45:42	306	56464.8
23 001	10:46:02	307	56399.6
23 001	10:46:26	308	?56130.0
23 001	10:46:40	309	?56122.8
23 001	10:47:36	310	?56003.2
23 001	10:47:49	311	?56104.4
23 001	10:48:02	312	?56409.6
23 001	10:48:21	313	?56729.0
23 001	10:48:36	314	56715.8
23 001	10:48:59	315	?56541.8
23 001	10:49:13	316	56769.8
23 001	10:49:32	317	56871.8
23 001	10:49:46	318	?56583.6
23 001	10:50:02	319	?56520.0
23 001	10:52:24	320	?56578.6
23 001	10:52:43	321	56513.4
23 001	10:52:56	322	56628.4
23 001	10:53:10	323	?56452.0
23 001	10:53:26	324	56418.2
23 001	10:53:40	325	56433.6
23 001	10:53:56	326	?56456.2
23 001	10:54:12	327	?56474.2
23 001	10:54:24	328	?56461.2
23 001	10:54:59	329	56462.2
23 001	10:55:19	330	56470.6

ADDITIONAL DATA GATHERED AT NORTH END OF LINE #23

LINE	VALUE
23	56586.8
	56581.4
	56571.8
	56571.2
	56551.6
	56583.0
	56569.4
	56565.0
	56566.8
	56566.8
	56568.0
	56555.4
	56555.4
	56564.2
	56555.2
	56535.0
	56528.8
	56532.4
	56533.6
23	56542.0

23 001	10:55:42	331	56466.4
23 001	10:55:56	332	56467.4
23 001	10:56:12	333	?56420.2
23 001	10:56:27	334	56425.2
23 001	10:56:40	335	56432.6
23 001	10:57:02	336	56424.8
23 001	10:57:21	337	56406.2
23 001	10:57:36	338	56374.2
23 001	10:57:51	339	56310.0
23 001	10:58:28	340	56203.4
23 001	10:58:53	341	?55888.0
23 001	10:59:11	342	?56012.8
23 001	10:59:23	343	?56610.4
23 001	10:59:34	344	57341.2
23 001	10:59:45	345	?55614.2
23 001	10:59:58	346	56666.4
23 001	11:00:10	347	?55813.8
23 001	11:00:25	348	?55883.4
23 001	11:00:39	349	56716.4
23 001	11:01:04	350	56763.8
23 001	11:01:19	351	56793.0
23 001	11:01:32	352	?56090.0
23 001	11:01:49	353	?57247.8
23 001	11:02:06	354	?58225.8
23 001	11:02:42	355	57628.0
23 001	11:02:54	356	?57062.8
23 001	11:03:08	357	57434.2
23 001	11:03:28	358	57209.4
23 001	11:03:47	359	?56094.4
23 001	11:04:21	360	?55738.0
23 001	11:04:39	361	56451.6
23 001	11:04:52	362	?56806.0
23 001	11:05:11	363	?56987.0
23 001	11:05:25	364	56999.4
23 001	11:05:40	365	56893.0
23 001	11:05:54	366	?55948.8
23 001	11:06:09	367	?56296.6
23 001	11:06:24	368	56697.8
23 001	11:06:46	369	?56483.4
23 001	11:07:57	370	?55983.6
23 001	11:08:13	371	?55617.0
23 001	11:08:25	372	56133.2
23 001	11:08:43	373	56412.0
23 001	11:09:26	374	?57061.0
23 001	11:09:42	375	?56257.6
23 001	11:10:04	376	?55996.0
23 001	11:10:27	377	56630.8
23 001	11:10:43	378	?56703.6
23 001	11:10:59	379	?56603.6

23 001	11:11:24	380	?56594.0
23 001	11:11:58	381	57191.0
23 001	11:12:11	382	57185.0
23 001	11:12:26	383	?56751.0
23 001	11:12:44	384	?56717.0
23 001	11:13:03	385	?56693.6
23 001	11:13:23	386	56805.6

** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HAN5

Line	Date	Time	Site	Field
24	001	11:16:57	388	57019.8
24	001	11:17:13	389	57020.8
24	001	11:17:54	390	56762.0
24	001	11:18:13	391	?57016.6
24	001	11:18:32	392	?57218.4
24	001	11:18:53	393	56468.8
24	001	11:19:09	394	56320.0
24	001	11:19:28	395	?56254.2
24	001	11:19:49	396	?57125.0
24	001	11:20:04	397	?58213.8
24	001	11:20:19	398	?57690.0
24	001	11:20:42	399	?55884.2
24	001	11:21:06	400	55925.4
24	001	11:21:24	401	55924.8
24	001	11:21:42	402	55981.6
24	001	11:22:04	403	?56349.2
24	001	11:22:19	404	?56955.6
24	001	11:22:32	405	?56820.8
24	001	11:22:50	406	?55745.2
24	001	11:23:16	407	?56216.0
24	001	11:23:38	408	?57283.0
24	001	11:23:51	409	?56477.6
24	001	11:24:06	410	?55114.0
24	001	11:24:19	411	?56825.6
24	001	11:24:34	412	?56352.6
24	001	11:24:59	413	56142.2
24	001	11:25:15	414	56130.6
24	001	11:25:41	415	?56202.6
24	001	11:25:58	416	?56701.0
24	001	11:26:20	417	?57455.0
24	001	11:26:36	418	?59117.0
24	001	11:27:13	419	?59829.8
24	001	11:27:31	420	?57286.6
24	001	11:27:46	421	?56642.0
24	001	11:27:58	422	?56062.4
24	001	11:28:15	423	56347.0
24	001	11:28:47	424	56169.8
24	001	11:29:31	425	?56481.6
24	001	11:29:45	426	56025.4
24	001	11:30:00	427	56029.2
24	001	11:30:12	428	56380.4

24	001	11:30:23	429	?57335.8
24	001	11:30:40	430	?58800.4
24	001	11:31:15	431	56931.8
24	001	11:31:27	432	56024.4
24	001	11:31:39	433	55804.2
24	001	11:31:53	434	56178.2
24	001	11:33:20	435	56363.0
24	001	11:33:37	436	56452.0
24	001	11:33:49	437	56476.8
24	001	11:34:04	438	56493.4
24	001	11:34:23	439	56515.0
24	001	11:34:35	440	56522.2
24	001	11:34:51	441	56540.2
24	001	11:35:15	442	56534.0
24	001	11:35:30	443	56511.0
24	001	11:35:45	444	56525.2
24	001	11:36:09	445	56546.6
24	001	11:36:22	446	56624.6
24	001	11:36:36	447	?57080.0
24	001	11:36:56	448	56779.0
24	001	11:37:07	449	56625.4
24	001	11:37:19	450	56464.2
24	001	11:37:37	451	56526.8
24	001	11:37:49	452	?56664.4
24	001	11:38:02	453	56532.4
24	001	11:38:15	454	56549.4
24	001	12:41:09	455	56479.6
24	001	12:41:31	456	56541.6
24	001	12:41:46	457	56509.8
24	001	12:41:58	458	56462.0
24	001	12:42:23	459	56481.8
24	001	12:42:36	460	56504.4
24	001	12:42:57	461	?56635.2
24	001	12:43:10	462	56471.6
24	001	12:43:24	463	56459.0
24	001	12:43:38	464	56483.2
24	001	12:43:52	465	56504.8
24	001	12:44:06	466	56543.8
24	001	12:44:18	467	56557.6
24	001	12:44:30	468	56569.6
24	001	12:44:43	469	56567.2
24	001	12:44:57	470	56573.0
24	001	12:45:09	471	56572.6
24	001	12:45:31	472	56591.0
24	001	12:45:47	473	56541.2
24	001	12:46:34	474	56611.4
24	001	12:46:53	475	56682.2
24	001	12:47:21	476	56676.8

24 001	12:48:19	477	56597.4
24 001	12:48:47	478	?56573.6
24 001	12:49:03	479	56482.4
24 001	12:49:21	480	56530.8
24 001	12:49:42	481	56556.6
24 001	12:49:57	482	56497.2
24 001	12:50:13	483	56358.0
24 001	12:50:31	484	56553.8
24 001	12:50:46	485	56579.6
24 001	12:51:12	486	56577.8
24 001	12:51:23	487	56580.6
24 001	12:51:34	488	56584.2
24 001	12:51:56	489	56592.8
24 001	12:52:08	490	56599.2
24 001	12:52:20	491	56574.6
24 001	12:52:32	492	56576.8
25 001	12:53:35	493	56516.0
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26 001	14:03:02	654	56467.4
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26	001	14:24:56	693	56544.2
26	001	14:25:08	694	56550.6
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** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HAN6

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27	001	14:38:50	723	56532.2
27	001	14:39:04	724	56532.8
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29 001	16:01:58	931	56442.0
29 001	16:02:09	932	?56414.4
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29 001	16:06:55	951	?56271.0
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29 001	16:16:03	979	56396.6
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29 001	16:18:14	986	255212.6
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** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HAN7

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** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HAN3

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40	002	14:56:58	332	?53452.0
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40	002	14:59:23	343	?56234.8
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41	002	15:07:32	372	56487.4
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41	002	15:08:17	374	56555.4
41	002	15:08:31	375	56526.0
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41 002	15:11:41	387	57221.2
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41 002	15:12:51	392	56338.8
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** G-856 MAGNETOMETER DATA **
RAW FIELD Code: HAN9

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46 002	16:05:27	580	?55440.0
46 002	16:05:40	581	55854.0
46 002	16:05:52	582	56255.4
46 002	16:06:03	583	56387.6
46 002	16:06:17	584	56467.0

46 002	16:06:28	585	56522.4
47 002	16:07:37	586	56442.6
47 002	16:07:50	587	56423.2
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47 002	16:08:16	589	56423.0
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47 002	16:08:38	591	56189.6
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47 002	16:09:00	593	56862.2
47 002	16:09:12	594	56664.2
47 002	16:09:51	595	56515.0
47 002	16:10:02	596	56445.6
47 002	16:10:16	597	56531.4
47 002	16:10:28	598	56462.0
47 002	16:10:38	599	56368.6
47 002	16:10:49	600	?56173.4
47 002	16:11:00	601	?56250.0
47 002	16:11:12	602	?56607.2
47 002	16:11:24	603	56622.2
47 002	16:11:39	604	56503.8
47 002	16:11:50	605	56392.2
47 002	16:12:07	606	56305.2
47 002	16:12:21	607	?56036.0
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48 002	16:16:54	624	56459.0
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48 002	16:18:00	627	56562.6
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48 002	16:18:36	630	56527.8
48 002	16:18:48	631	56440.4
48 002	16:19:01	632	56467.0

48 002	16:19:13	633	56264.2
48 002	16:19:39	634	56421.6
48 002	16:19:53	635	56492.6
48 002	16:20:05	636	56536.6
48 002	16:20:16	637	56586.2
48 002	16:20:29	638	56577.4
48 002	16:20:40	639	56466.6
48 002	16:20:53	640	56454.8
48 002	16:21:14	641	56479.8
48 002	16:21:25	642	56492.8
48 002	16:21:39	643	56477.4

9/25/86

0818 - PREPARING TO SAMPLE WELL
~~GW~~ 08 - SAMPLE # 01 :
~~02 (GW 08 DUPLICATE) PAS~~

DTW = 7.58' BTC

Sample # 01

0901 pH 7.27 - Cloudy, Brown END 0904
Temp 13°C
Spec. Cond 1100 umhos

0845 - COLLECTED SAMPLE 01 AND
0830 - " " 01-AF.

0922 - ARRIVED TO SAMPLE GW-09
(SAMPLE No. 02) : 02 AF
DTW. 7.68' BTC.

0955 pH 7.26 - Cloudy, reddish END 1000
Temp 12°C
Spec Cond 420 umhos
WATER RUST-COLORED THEN CLEARED
SOMEWHAT. JETS IN AREA.
SLIGHT EXHAUST ODOR IN AIR

9/25

1040 - PREPARING TO SAMPLE WELL
G-07, DTW - ~~G.8~~ 6.86' BTC
PULLING SAMPLES 03 - 1100

JETS, SPRAY PAINT AND ENGINE RUN-UP IN AREA

1110 03 RF.
1120 04 - DUPE
1050 05 - BLANK

1125 pH 7.43 cloudy brown END 1128
Temp 16°C
Spec Cond 438 µMHOS

1130 - FINISHED SAMPLING

1138 - PREPARING TO SAMPLE G-10
DTW = 0.52' BTC. (SAMPLE 06)
TEMP 13°C

WATER CLOUDY GRAY-BRN.

1213 pH 8.16 - cloudy gray brn. END 1216
Temp 13°C
Spec Cond 260 µMHOS

1222 FINISHED SAMPLING FOR 9/25

9/25

1548 - PURGING WELL G-03

DTW = 10.92' BTC - STICK UP = 2.14'

BOTTOM = 30.19.

28.05' SAT = 41 GAL

= 123 GAL PURGE.

SWITCHING FROM KECK TO 2" CENTRIFUGAL

1559 - STARTED PUMPING

18 GPM (TRASH PUMP)

1607 pH 8.61 cloudy light brn. END 1611

Temp 12.6°C

Spec Cond 698 umhos

1609 CEASED PURGING - 180 GAL PUMPED.

1620 STARTED PURGING OF G-01

DTW = 7.91' BTC STICK UP = 1.97

BOTTOM = 31.65' BTC.

= 23.74 SAT = 34.8 GAL

= 104.4 GAL = 5.8 MIN

@ 18 GPM.

1625 - STARTED PUMPING

9/25/86

1630	pH	5.82 [illegible]	cloudy yellow brn 1635 END
	Temp	13.0°C	
	Spec Cond	749 μMHOS	

1644 - ARRIVED AT WELL G-04
WATER AT TOP OF CASING
STICK UP = 2.21'
BOTTOM = 32.56' BTC

1700 - PUMP LINE PLUGGED WITH SAND, FORMATI[illegible]SAND PACK
1737 - WELL 04 - DESTROYED
QUIT SITE.
1749 - SOUNDED C-02
WL = 21.64' BTC STICK UP = 2.20'
BOTTOM 43.34'
1806 - SOUN[illegible] WELL G-06
6.76' BTC STICK UP = 2.40
30.30 ~~TO~~ BOTTOM (BTC)
1838 - FISHED STICK FROM ~~WELL~~ WELL
BEGAN PUMPING 8.5 GAM
34.6 GAL IN { SAT
WELL ~~CASING~~ (6") = 104 GAL
PURGE - 12.2 MIN

1855 CEASED PURGING · 120 GAL PURGED

1947 pH 10.44 END 1950
Temp 13°C
Spec Cond 509 μMHOS

9/26/86 FRI - OVERCAST, WARM
0810 - ARRIVED TO PURGE WELL G-02
- DATA PREVIOUS PAGE
≈21' SAT = 31 GAL (G' WELL)
PURGE VOLUME = 93 GAL
= ≈ 77.5 MIN @ 1.2 GPM
0820 - BEGAN PUMPING WITH KECK

0832 pH 6.88 slightly cloudy, gray END 0836
Temp 12.4
Spec Cond 888 μMHOS
0840 RAISED PUMP 5'
0852 pH 6.92 slightly ~~cloudy,~~ gray END
Temp 12.2°C
Spec Cond 860 μMHOS

9/26/86 END

0936 pH 7.10 — cloudy gray 0934

Temp 12.0°C

Spec Cond 785 uMHOS

0949 - RAISED PUMP 5'

1000 CEASED PURGE, >100 GAL REMOVED.

1200 PULLED SAMPLE 07 FROM ARTESIAN WELL # G-05.

END

1213 pH 7.66 - clear water 1215

Temp 10°C

Spec Cond 490 uMHOS.

1230 - PREPARING TO PULL SAMPLE 08 - WELL # G-03

DTW = 10.82' BTC

1240 PULLED SAMPLE 08 - CLOUDY GREY

END

1245 pH 7.14 - cloudy gray 1247

Temp 14°C

Spec Cond 665 uMHOS

9/22/86

1253 PREPARING TO PULL SAMPLE 09
WELL # G-02
DTW = 21.63' BTC

1305 PULLED SAMPLE 09
VERY CLOUDY GREY - BRN
END

1318 pH 7.11 very cloudy gray to brn 1320
Temp 12 °C
Spec Cond 795 uMHOS

1355 PREPARING TO PULL SAMPLE 10
FROM WELL G-01
DTW = 7.88' BTC

1400 - Pulled Sample 10
Slightly Cloudy Orange
END

1425 pH 6.44 - slightly cloudy 1432
Temp 13 °C
Spec Cond 718 uMHOS

9/28/86

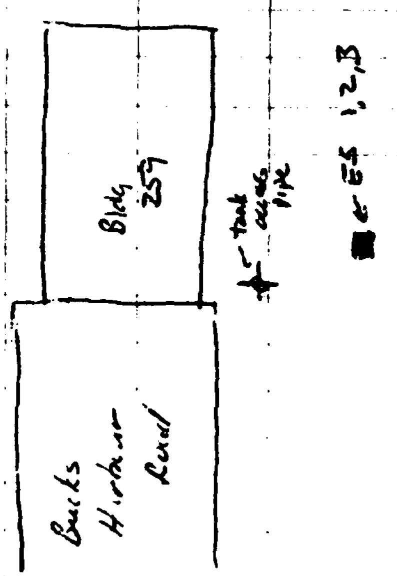
1533 - ARRIVED TO PULL SAMPLE
11 FROM WELL # E-06
DTW = 6.98' BTC

1545 PULLED SAMPLE 11

1555 pH 7.66 - Mostly Clear
Temp 12.5°C
Spec Cond 455 µMHOS

ENP 1558

END FIRST SAMPLING ROUND.



12-5-86

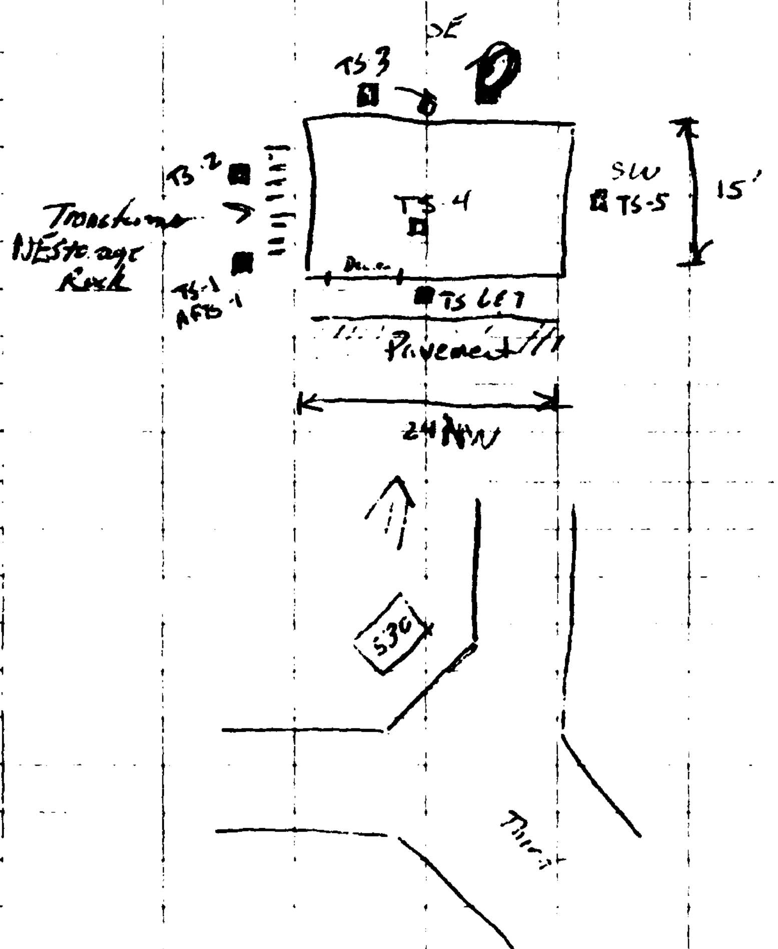
Sampling 1235
Site S-3 (Entomology)
Obtained Water Sample
from tank behind shop
Water is dark gray and
very odorous. The pipe
leading to the tank
is uncapped and open
to the environment.
3 bottles collected (1L clear)
for:
Organophosphorus Pesticides
Chlorinated Phenoxy Pesticides
Organochlorine Pesticides

T.	Cond	pH
18°C	2500	7

Soil Borings

1245	ES-3	3.0' BLS
1252	ES-1	.66' BLS
1255	ES-2	1.5' BLS

(1160) 1 bottle for pesticides listed above



12-5-86

1310 Arrived at Site S-1
(Transformer Storage Area)
Bldg 530

Time	Sample #		Parameter	
1300	HFTS-1		PCB's	Pet HC
1300	TS-1		"	"
1305	TS-2		"	"
1310	* TS-3		"	"
1315	TS-4		"	"
1320	TS-5		"	"
1325	TS-6		"	"
1325	TS-7	(TS-6 DUP)	"	

* taken under asphalt roofing shingles

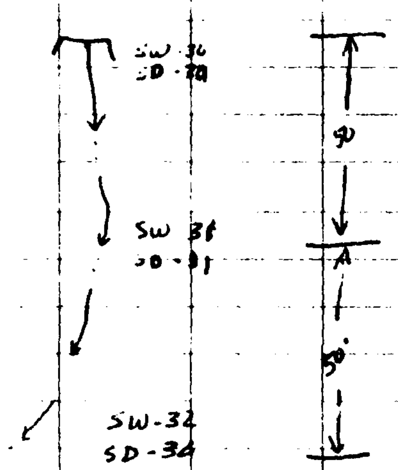
12-5-86

1425 Arrived at Site SP-1
(Sage Plant Oil Spill Site

Time	Sample I.D	Temp	pH	Cond
*²SD-30	1455			
*SD-31	1445			
SD-32	1440			
*²SW-30	1455	8°C	7	350
*SW-31	1445	8°C	7	350
SW-32	1440	8°C	7	350

* Sheen was noticed on water after adj. bank was disturbed during sampling

* in addition to sheen an odor was noticed when bank was disturbed



12-6-86

Filled Field Blanks
SW-24 and SW-25

Sample #	Time	T (°C)	pH (units)	Cond (µmhos/cm)	Comments
SW, SD-1	1400	5°	6.11	900	
SW, SD-2	1425	5°	6.67	890	
SW, SD-3	1445	5°	6.81	750	
SW, SD-4	~~0810~~	6°	6.53	590	0.1 Sheen
SW, SD-5	0455	2°	6.65	470	—
SW, SD-6	1050	2°	6.53	460	— sed [illegible]
SW, SD-7	1020	2°	6.61	350	—
SW, SD-8	1225	2°	6.87	400	—
SW, SD-9	1245	1°	6.71	500	Had to break through [illegible] ice (turbid)
SW, SD-10	1257	1°	6.50	200	" "
SW, SD-11	1210	4°	6.71	475	—
SW, SD-12	1200	2°	6.61	340	Turbid located in swamp
SW, SD-13	1100	3°	6.45	355	—
SW, SD-14	1122	2°	6.64	450	Stony bottom
SW, SD-15	1100	2°	6.89	400	—
SW, SD-16	1010	2°	6.75	350	Jet [illegible] present [illegible] sampling
SW, SD-17	Could not be located				—
SW, SD-18	1325	2	6.11	340	Water orange
SW, SD-19	1455	2°	6.85	710	

[illegible] -

SEE FB #1
FOR 12/15

12/6/86

Sample #	Time	T	pH	Cond	
SW, SD-20	1515	2°	6.71	575	
SW, SD-21	1535	6°	6.53	590	0.1 Sheen
[1] SW, SD-22	0830	6°	6.53	590	0.1 Sheen
[1] SW, SD-23	1400	5°	6.71	900	
[2] SW, SD-24	0745	NA	NA	NA	~~0.1 Sheen~~
~~SW, SD-25~~	~~1530~~	~~6°~~	~~6.91~~	~~600~~	~~0.1 Sheen~~ unmarked
AF SW, SD-4	0810	6°	6.53	594	~~0.1 Sheen~~ 0.1 Sheen
AF SW, SD-1	1400	5°	6.71	900	

1 #22 is rep for #4 #23 is rep for #1

2 Field Blank

SATURDAY 12/13 - COLD, BLOWING SNOW

0900 PREPARING TO PURGE & RESAMPLE EXISTING WELLS 7, 8, 9, & 10.
PURGE CONSISTS OF 1 CASING EVACUATION BY BAILING.

0946 - PURGED & RESAMPLED WELL GW-7
JET FUMES IN AREA. DTW = 4.54
SAMPLE GW-1 & GW-2 (DUPE
TEMP = 10 °C
SPEC COND = 422
PH = 7.36

1020 - PURGED & RESAMPLED WELL GW-8
DTW = 7.24
SAMPLE GW-3
TEMP = 9 °C
SPEC COND = 1002
pH = 7.25

1103 - PURGED & SAMPLED WELL GW-9
SAMPLE GW-~~4~~ - DTW = 7.55
TEMP = 10 °C
SPEC COND = 472
pH = 7.18

12/13

1155 - PURGED & RESAMPLED WELL GW-10, SAMPLE # GW-5 DTW = 71.98' BLS
TEMP = 11°C , PH = 8.12 (FLOWING SLIGHTLY)
SPEC. COND = 444

1245 PURGED & RESAMPLED WELL GW-3
SAMPLE # GW-6 : DTW = 10.59
TEMP = 9° PH = 7.12
SPEC. COND = 656

1338 - PURGED : SAMPLED WELL GW-1
SAMPLE # GW-7 DTW = 7.59
TEMP = 10°C PH = 6.28
SPEC COND = 765
RUSTY

1415 ~~PURGED : SAMPLED WELL~~ GW-2
~~SAMPLE # GW-8 DTW~~ =
~~TEMP~~ PH =
~~SPEC COND~~ =
BROKE WRENCH, COULDN'T OPEN WELL CAP, TOO DAMNED COLD...

12/15/86- COOL, OVERCAST, LT. RAIN

0930 : BORROWED 3/4" WRENCH FROM DRILLERS & OPENED WELL GW-2

0950- PURGED & SAMPLED WELL GW-2 - DTW = 31.41 BTC

pH = 6.55 TEMP = 11°C

SPEC COND = 862 umhos

SAMPLE # GW-8 -

1050 - ALLOWED WELL GW-5 TO SELF PURGE & COLLECTED SAMPLE # GW-9 -

DTW = FLOWING LIKE SEPT.

pH = 7.60, SPEC COND = 500

TEMP = 10°C

1145 - PURGED AND SAMPLED WELL GW-6 - SAMPLE # GW-10

DTW = 6.57 pH = 7.64

SPEC. COND = 472, TEMP = 11°C

1405- COLLECTED SAMPLES SD-17 & SW-17

SAMPLES VERY TURBID ; HAD TO CHOP THRU 2" OF ICE - TEMP = 1°C

pH = 6.60 SPEC. COND = 530

12-16-86

1353 - Preparing to sample, considerable jet traffic

1405 Purged & Sampled Well
MW-11 Sample # 11 GW
Temp : 10°C DTW = 8.09' BTC
pH : 6.7 7.45' BTC
Spec Cond 320

1414 Sampled Well
MW-11D Sample # 12
Temp 9°C DTW 3.61' BTC
pH 7.53
Spec Cond 320

Sampled Well - Snowing
1435 MW-12 Sample # GW13
Temp 10°C DTW ~~14.1'~~ 8.82' BTC
pH 6.78 ~~(ALS)~~
Spec Cond 600

Sampled Well
1448 MW-12D Sample # GW14
Temp 10° DTW 1.71' BTC
pH 6.81 (ALS)
Spec Cond 2600

12-16-86

1500 MW13 Sampled Well - It snowy cool
Temp 11°
pH 6.93
Spec Cond [illegible]

Sample# BW 15
DTW 9.86 BTIC

1610 MW13D Sampled Well
Temp 11°C
pH 6.63
Spec Cond [illegible]

Sample # GW 16
DTW 0.63' BTC
(ALS)

1530 Began to prepare samples for shipment to lab

1600 Departed from site

1-12-87
1505 Purging MW11
DTW 7.10 with Stickup
~~[illegible]~~
DTW → 3.63 LS
Attempt unsuccessful; pump would not draw from well
Weather: Snowing heavily and windy.

1-14-87

2nd Round Sampling of New Wells at Fire Training - pH, Temp, Cond, Pb, Petro Hydro Purgeable Halo carbons, Aromatic V.O. *1

Sample #	Time	T, °C	pH, S.U.	Cond, µMhos/cm	NFU	Comments
GW17	1425	11°	7.05	590	12	WL 8.97' BTIC
GW18	1435	8°	7.61	3800	12-D	WL 2.00 BTIC
GW19	1455	15°	6.80	19	—	Blank
GW20	1507	15°	6.80	19	—	Bailer Wash
GW21	1522	9°	7.05	840	13	WL 7.50 BTIC
GW22	1538	8°	9.2	4,000	130	WL 1.70 BTIC
*2 GW23	1600	10°	7.15	830	13	WL 9.25 BTIC
*2 GW24	1616	8°	7.18	5,400	130	WL 1.15 BTIC

*1 Intermittent Exhaust Fumes noted throughout sampling

*2 Heavy Exhaust Fumes in Area

Another Field Blank taken at 1550

1-15-87

First Round Sampling of New Wells on North Side of Base

	Time	Temp	pH	Cond	Well	Comments
GW25	15~~40~~	12°	9.4	14,200	15D	WL 6.68 BTIC
GW26	1615	9°	9.0	950	15	WL 8.15 BTIC
GW27	1615	9°	9.0	950	15	Air Force Dupe
GW28	1655	13°	9.2	2,500	30	WL 10.70 BTIC

1-16-87

	Time	Temp	pH	Cond	Well	Comments
*[1] GW29	1300	8°	9.2	2,000	14	WL 1.81 BTIC
GW30	1220	9°	9.2	1600	14D	WL 8.87 BTIC
*[2] GW31	1225	8°	8.1	1250	6D	WL 3.07 BTIC
GW32	1205	8°	8.1	1250	6D	Duplicate

*[1] Water very turbid towards last bail

*[2] 2 extra Petroleum Hydrocarbons

307

Stickups Remeasured

MW11	3.6' ALS
MW11D	3.0' ALS
MW12	2.7' ALS
MW12D	2.9' ALS
MW13	2.8 ALS
MW13D	2.7' ALS
MW3D	3.1' ALS
MW6D	2.0' ALS
MW15	2.6' ALS
MW15D	2.5' ALS
MW14	2.2' ALS
MW14D	2.1' ALS

* 1060 - PURGED WELL #10 OF ABOUT 15 GAL BY BAILER.

10/19/87

ARRIVED AT BASE 0648 - CLEAR, COOL

0720 - DRILLER (LAYNE) ARRIVED, NO PUMP

0848 - DRILLER HAS PUMP. BEGIN PUMPING WELL GW-16 - @ 3 GPM FOR 1 HR. (180 GAL) - EACH WELL RECEIVES SAME TREATMENT.

MW-17 - GETS 1.25 HRS (225 GAL)

1130 - TAKE LUNCH

1200 - READY TO SAMPLE. WLS STILL DISTURBED. WILL MEASURE TOMORROW

1215 - BEGAN SAMPLING WELL #16 SAMPLE ~~GW~~ GW-34 AND 35 (DUPE) 12 CONTAINERS ~~~~ FILLED. TEMP = 17°C, PH = 6.53, SC = 525.

* 1315. SAMPLED WELL MW-10, TEMP = 18° PH = 6.21, SC = 290 S: GW-33

* 1345 SAMPLED WELL #17, SAMPLE # ~~GW~~ 36. TEMP = 17°, PH = 6.82, SPEC COND = 425

1415 SAMPLED WELL #18, SAMPLE GW 37 TEMP = 17°, PH = 6.90, SPEC COND = 600

1445 - 1645 - PACKING SAMPLES FOR SHIPMENT

* A-10 ON RUN-UP STAND. STRONG EXHAUST ODOR.

APPENDIX F: ANALYTICAL PROCEDURES

ANALYTICAL METHODS, DETECTION LIMITS AND HOLDING TIMES

PARAMETER	METHOD	DETECTION LIMIT	HOLDING TIME
Water Samples			
Alkalinity, Carbonate & Bicarbonate	A403	10 mg/L	14 days
Common Anions	A429	0.1 mg/L	28 days
Conductance (Field Test)	E120.1	-- umhos/cm	(f)
pH (Field Test)	E150.1	-- pH Units	(f)
Total Dissolved Solids	E160.1	10 mg/L	7 days
Temperature (Field Test)	E170.1	-- deg C	(f)
ICP Scan for 10 Priority Pollutant Metals	E200.7	(b) mg/L	6 mos.
Metals Screen (23 metals)	E200.7	(b) mg/L	6 mos.
Arsenic	E206.2	0.001 mg/L	6 mos.
Lead	E239.2	0.002 mg/L	6 mos.
Mercury	E245.1	0.0002 mg/L	6 mos.
Selenium	E270.2	0.002 mg/L	6 mos.
Petroleum Hydrocarbons	E418.1	1.0 mg/L	28 days
Purgeable Halocarbons	E601	(a) ug/L	14 days
Aromatic Volatile Organics	SW/5030/ SW8020	(a) ug/L	14 days
Organochlorine Pesticides	E608	(a) ug/L	7 days (extraction) 40 days from extraction date (analysis)
Organophosphorus Pesticides	SW3510/ SW8140	(a) ug/L	7 days (extraction) 14 days from sample date (analysis)
Chlorinated Phenoxy Acid Herbicides	SW8150	(a) ug/L	7 days (extraction) 40 days from extraction date (analysis)
Extractable Priority Pollutants (GC/MS)	E625	(a) ug/L	14 days (extraction) 40 days from extraction date (analysis)

ANALYTICAL METHODS, DETECTION LIMITS AND HOLDING TIMES

PARAMETER	METHOD	DETECTION LIMIT	HOLDING TIME
Soil Samples			
Petroleum Hydrocarbons	SW3550/ E418.1	1. mg/Kg	28 days
Metals Screen (23 metals)	SW3050/ SW 6010	(d) mg/Kg	6 mos.
ICP Scan for 10 Priority Pollutant Metals	SW3050/ SW6010	(d) mg/Kg	6 mos.
Arsenic	SW7060	0.1 mg/Kg	6 mos.
Lead	SW3050/ SW7420	10 mg/Kg	6 mos.
Mercury (Cold Vapor)	SW7471	0.1 mg/Kg	38 days
Selenium	SW7740	0.2 mg/Kg	6 mos.
Organochlorine Pesticides	SW3550/ SW8080	1 mg/Kg	14 days (extraction) 40 days from extraction date (analysis)
PCBs	SW3550/ SW8080	1 mg/Kg	14 days (extraction) 40 days from extraction date (analysis)
Organophosphorus Pesticides	SW3550/ SW8140	1 mg/Kg	14 days (extraction) 40 days from sample date (analysis)
Chlorinated Herbicides	SW8150	1 mg/Kg	14 days (extraction) 40 days from extraction date (analysis)
Volatile Organics (GC/MS)	SW5030/ SW8240	1 mg/Kg	14 days
Semivolatile Organics (GC/MS)	SW3550/ SW8270	1 mg/Kg	14 days (extraction) 40 days from extraction date (analysis)
Soil Moisture Content	ASTM D2216-71	-- %	(f)
RCRA Waste Monitoring			
EP Toxicity Extraction	SW1310	(c)	6 mos. except
EP Toxicity (metals)	SW Manual		Hg - 28 days

NOTES

a Detection limits as specified by the applicable EPA or Standard Method.

b

Metal	mg/L	Metal	mg/L
Al	0.045	Mn	0.002
Sb	0.032	Mo	0.008
Ba	0.002	Ni	0.015
Be	0.0003	K	(determine at time of analysis)
B	0.005	Silica	0.058
Cd	0.004	Ag	0.007
Ca	0.010	Na	0.029
Cr	0.007	Tl	0.040
Co	0.007	V	0.008
Cu	0.006	Zn	0.002
Fe	0.007		
Pb	0.042		
Mg	0.030		

c

Metal	mg/L of leachnig solution
As	0.053
Ba	0.1
Cd	0.005
Cr	0.05
Pb	0.1
Hg	0.0002
Se	0.075
Ag	0.01

d

Metal	mg/Kg	Metal	mg/Kg
Al	4.5	Mn	0.2
Sb	3.2	Mo	0.8
Ba	0.2	Ni	1.5
Be	0.03	K	(determine at time of analysis)
B	0.5	Silica	5.8
Cd	0.4	Ag	0.7
Ca	1.0	Na	2.9
Cr	0.7	Tl	4.0
Co	0.7	V	0.8
Cu	0.6	Zn	0.2
Fe	0.7		
Pb	4.2		
Mg	3.0		

e For soil samples, report results as mg/Kg of dry soil. Report moisture content for each soil sample.

f Test immediately, no holding.

APPENDIX G: CHAIN OF CUSTODY FORMS

SAIC

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY

476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. A-1

CONSIGNEE

Name: [illegible] A[illegible] - SAIC

No., Street: [illegible]

City, State, Zip: [illegible] 22102

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics PP	Surv. Ext. Organics	Vol. Organics	Surv. Vol. Organics	Trace Metals	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	Oil and Grease	Lipids	Part. Size Dis.	Sediment Core Date	Remarks
[illegible]	[illegible]		1L	Groundwater	X		/		/	X											X								
[illegible]	[illegible]		1L	Groundwater	X		/		/	X											X								
[illegible]	[illegible]		1L	Groundwater	X		/		/	X											X								
04	[illegible]		1L	Groundwater	X		/		/	X											X								
[illegible]	[illegible]		1L	Groundwater	X		/		/	X											X								
[illegible]	[illegible]		1L	Groundwater	X		/		/	X											X								

Total No. Containers:

SHIPPING CHAIN OF CUSTODY

SAI (by) (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	9/25	1345						

Shipping Method	Shipped By (sign)	Courier From Airport (sign)	Date	Time	Received By Contract Lab (sign)	Date	Time
[illegible]					[signature]	9/[illegible]	11 AM

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY

476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. A-2

CONSIGNEE

Name: P.A. SPCCINSCC

No., Street: SAIC, McLEAN, VA

City, State, Zip:

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol. Organics	Surv. Vol. Organics	Trace Metals	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	Oil and Grease	Lipids	Part. Size Dis.	Sediment Core Date	Remarks
07	9/26		10	GROUNDWATER	✓		✓		✓																				
08	9/26		10	" "	✓		✓		✓																				
09	9/26		10	" "	✓		✓		✓																				
10	9/26		10	" "	✓		✓		✓																				
11	9/26		10	" "	✓		✓		✓																				

Total No. Containers:

SHIPPING CHAIN OF CUSTODY

SAI (by) (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[illegible signature]	9/26	1630						
[redacted] Shipping Method [redacted] Shipped By (sign) [redacted]	[redacted]	[redacted]	[redacted]er Fr[redacted]port [redacted]	[redacted]	T[redacted]	Rec[redacted]y Co[redacted]Lab ([redacted]	[redacted]Date	[redacted]ime [redacted]

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY

476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

SAMPLE SHIPPING RECORD

Shipment No. 1 cooler #1/2

CONSIGNEE

Name: SAIC

No., Street: 476 Prospect St.

City, State, Zip: La Jolla, CA 92038

VOL ORGANICS = SW 5030 / SW 8240

SEMI VOL. ORG = SW 3550 / SW 8270

PETRO HYDROCARBONS = SW 3550 / E 418.1

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	~~Surr. Ext. Organics~~	Vol Organics GC/MS	Semi Vol. Organics (extra)	Metals LEAD	Other Inorganics	Pesticides PP. Metals	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ Petro HC	Lipids	Part. Size Dis.	Sediment Core Date	Remarks
FS-A-1	11/18	11/20 10:40	2	SOIL			✓		✓																✓				
FS-A-3	11/19	"	2	SOIL			✓		✓																✓				
FS-A-4	11/19	"	2	SOIL			✓		✓																✓				
FS-E-3	11/19	"	2	SOIL			✓		✓																✓				
FS-F-3	11/19	"	2	SOIL			✓		✓																✓				
FS-G-2	11/19	"	2	SOIL			✓		✓																✓				
FS-G-3	11/19	"	2	SOIL			✓		✓																✓				
FS-H-3	11/19	"	2	SOIL			✓		✓																✓				
FS-H-4	11/19	"	2	SOIL			✓		✓																✓				
FS-I-1	11/19	"	2	SOIL			✓		✓		✓														✓				
FS-G-1	11/19	"	2	SOIL			✓	✓	✓																✓				
FS-F-1	11/19	"	2	SOIL			✓	✓	✓																✓				
FS-F-2	11/19	"	2	SOIL			✓	✓	✓																✓				
	Total No. Containers		26																										

HANCOCK FIELD

SHIPPING CHAIN OF CUSTODY

~~Std (by)~~ (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature] A. Spann	11/20	1200						
Shipping Method / Shipped By (sign)			Courier From Airport (sign)	Date	Time	Received By Contract Lab (sign)	Date	Time

G-3

SAIC

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY

476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

SAMPLE SHIPPING RECORD

Shipment No. 1 Courier 2/2

CONSIGNEE

Name: SAIC

No., Street: 476 Prospect St.

City, State, Zip: LaJolla, CA 92038

VOL. ORG = SW 5030/8240

SEMI VOL. ORG = SW 3550/SW 8270

PETRO HYDROCARBONS = SW 3550/E 418.1

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	~~S...~~	Vol. Organics (GC/MS)	Semi Vol. Organics (GC/MS)	~~Trace Metals~~ LEAD	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ Petro HC	Lipids	Part. Size Dis.	Sediment Core Date	Remarks
FS-B-1	11/18		2	SOIL		~~✓~~	✓	✓	✓																✓				
FS-C-1	11/18		2	SOIL		~~✓~~	✓	✓	✓																✓				
FS-C-2	11/18		2	SOIL		~~✓~~	✓	✓	✓																✓				
FS-D-2	11/18		2	SOIL		~~✓~~	✓	✓	✓																✓				
FS-E-1	11/18		2	SOIL		~~✓~~	✓	✓	✓																✓				
FS-E-2	11/18		2	SOIL		~~✓~~	✓	✓	✓																✓				
FS-D-1	11/18		2	SOIL		~~✓~~	✓	✓	✓																✓				
FS-A-2	11/18		2	SOIL			✓		✓																✓				
FS-B-2	11/18		2	SOIL			✓		✓																✓				
FS-B-3	11/18		2	SOIL			✓		✓																✓				
FS-C-3	11/18		2	SOIL			✓		✓																✓				
FS-D-3	11/18		2	SOIL			✓		✓																✓				
FS-H-1	11/19		2	SOIL			✓		✓																✓				
FS-H-2	11/19		2	SOIL			✓		✓																✓				
	Total No. Containers		28																										

HANCOCK FIELD

SHIPPING CHAIN OF CUSTODY

Shipped (sign) by	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
Phil A. Spooner	11/20	1200						
Shipping Method / Shipped By (sign)			**Courier From Airport (sign)**	**Date**	**Time**	**Received By Contract Lab (sign)**	**Date**	**Time**

SAIC SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. (2) 1 OF 7

CONSIGNEE

Name: SAIC
No., Street: 476 Prospect St.
City, State, Zip: La Jolla, CA 92038

(1) METHODS, E608, SW3510/8140, SW 8150

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol. Organics AROMATIC	Semi-Vol. Organics GC/MS	Trace Metals LEAD ONLY	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	PCBs SW 8080	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E418.1	Lipids	Part. Size Dis.	Sediment Core Date	PURGEABLE E601 HALOCARBONS	Remarks
EW-1	12/5	12/8 0900	3	TANK WATER SAMPLES (1)							✓	✓																		
SW-30	"	"	5	SURFACE WATER			✓		✓																✓				✓	
SW-31	"	"	5	" "			✓		✓																✓				✓	
SW-32	"	"	5	" "			✓		✓																✓				✓	
SD-30	"	"	2	SEDIMENTS				✓	✓																✓					
SD-31	"	"	2	"				✓	✓																✓					
SD-32	"	"	2	"				✓	✓																✓					
TS-1	"	"	1	SOIL														✓							✓					
TS-2	"	"	1	"														✓							✓					
TS-3	"	"	1	"														✓							✓					
TS-4	"	"	1	"														✓							✓					
TS-5	"	"	1	"														✓							✓					

Total No. Containers: 29

HANCOCK FIELD

G-5

SHIPPING CHAIN OF CUSTODY

~~SAIC (sign)~~ by	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	12/8	0900						
Shipping Method / Shipped By (sign)			Courier From Airport (sign)	Date	Time	Received By Contract Lab (sign)	Date	Time

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

Shipment No. 2 of 7 (2)

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

CONSIGNEE

Name: SAIC

No., Street: 476 Prospect St.

City, State, Zip: La Jolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics GC/MS	~~...~~ Organics Aromatic VOCs	Vol. Organics	~~Semi~~ Vol. Organics	Trace Metals P.P. (13)	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E418.1	Lipids	Part. Size Dis.	Sediment Core Date	Purgeable Halocarbons E601	Remarks
SW-1	12/6	12/8 0915	7	Surface Water	✓	✓			✓																✓				✓	
SW-2	"	"	7	" "	✓	✓			✓																✓				✓	
SW-3	"	"	7	" "	✓	✓			✓																✓				✓	
SW-4	"	"	7	" "	✓	✓			✓																✓				✓	
SD-1	"	"	2	Sediments			✓	✓	✓																✓					
SD-2	"	"	2	"			✓	✓	✓																✓					
SD-3	"	"	2	"			✓	✓	✓																✓					
SD-4	"	"	2	"			✓	✓	✓																✓					

Total No. Containers: 36

HANCOCK FIELD

G-6

SHIPPING CHAIN OF CUSTODY

~~SAI tbd~~ (sign) by	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	12/8	0915						
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. (2) 3 of 7

CONSIGNEE

Name: SAIC

No., Street: 476 Prospect St.

City, State, Zip: La Jolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics GC/MS	~~Sem-Ext.~~ Organics Aromatic VOA's	Vol. Organics GC/MS	~~Semi~~ Vol. Organics	Trace Metals P.P. (13)	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E 418.1	Lipids	Part. Size Dis.	Sediment Core Date	Purgeable Halocarbons E601	Remarks
SW-5	12/6	12/8 0930	7	SURFACE WATER	✓	✓			✓																✓				✓	
SW-6	"	"	7	" "	✓	✓			✓																✓				✓	
SW-7	"	"	7	" "	✓	✓			✓																✓				✓	
SW-8	"	"	7	" "	✓	✓			✓																✓				✓	
SD-5	"	"	2	SEDIMENTS			✓	✓	✓																✓					
SD-6	"	"	2	"			✓	✓	✓																✓					
SD-7	"	"	2	"			✓	✓	✓																✓					
SD-8	"	"	2	"			✓	✓	✓																✓					

Total No. Containers: 36

HANCOCK FIELD

G-7

SHIPPING CHAIN OF CUSTODY

~~Sampled~~ (sign) by	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	12/8	0930						
Shipping Method / Shipped By (sign)			Courier From Airport (sign)	Date	Time	Received By Contract Lab (sign)	Date	Time

SAIC™ Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. 4 of 7 (2)

CONSIGNEE

Name: SAIC
No., Street: 476 Prospect St.
City, State, Zip: La Jolla, CA 92038

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description
SW-9	12/6	12/8 0945	7	SURFACE WATER
SW-10	"	"	7	" "
SW-11	"	"	7	" "
SW-12	"	"	7	" "
SD-9	"	"	2	SEDIMENTS
SD-10	"	"	2	"
SD-11	"	"	2	"
SD-12	"	"	2	"
	Total No. Containers		36	HANCOCK FIELD

SAMPLE ANALYSIS

Sample No.	Ext. Organics GC/MS	~~Semi~~ Ext. Organics	Vol. Organics Aromatic Vols.	~~Semi~~ Vol. Organics GC/MS	Trace Metals PP (13)	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E418.1	Lipids	Part. Size Dis.	Sediment Core Date	Purgeable Halocarbons E601	Remarks
SW-9	✓	✓			✓																✓				✓	
SW-10	✓	✓			✓																✓				✓	
SW-11	✓	✓			✓																✓				✓	
SW-12	✓	✓			✓																✓				✓	
SD-9			✓	✓	✓																✓					
SD-10			✓	✓	✓																✓					
SD-11			✓	✓	✓																✓					
SD-12			✓	✓	✓																✓					

G-8

SHIPPING CHAIN OF CUSTODY

~~SAI (SB)~~ (sign) By	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	12/8	0945						
[redacted]			[redacted]			[redacted]		

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. 5 of 7 (2:

CONSIGNEE

Name: SAIC

No., Street: 476 Prospect St.

City, State, Zip: La Jolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics GC/MS	~~Semi-Ext.~~ Organics Aromatic VOA	Vol Organics	~~Semi~~ Vol. Organics GC/MS	Trace Metals P.P. (13)	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E 418.1	Lipids	Part. Size Dis.	Sediment Core Date	Purgeable Halocarbons E601	Remarks
SW-13	12/6	12/8 1000	7	SURFACE WATER	✓	✓			✓																✓				✓	
SW-14	"	"	7	" "	✓	✓			✓																✓				✓	
SW-15	"	"	7	" "	✓	✓			✓																✓				✓	
SW-16	"	"	7	" "	✓	✓			✓																✓				✓	
SD-13	"	"	2	SEDIMENTS			✓	✓	✓																✓					
SD-14	"	"	2	" "			✓	✓	✓																✓					
SD-15	"	"	2	" "			✓	✓	✓																✓					
SD-16	"	"	2	" "			✓	✓	✓																✓					

Total No. Containers: 36

HANCOCK FIELD

SHIPPING CHAIN OF CUSTODY

~~SAI Seal~~ (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	12/8	1000						

Shipping Method	Shipped By (sign)	Courier From Airport (sign)	Date	Time	Received By Contract Lab (sign)	Date	Time

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

Shipment No. 6 OF 7 (2)

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

CONSIGNEE

Name: SAIC
No., Street: 476 Prospect St.
City, State, Zip: La Jolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics GC/MS	~~Semi~~ Organics	Vol Organics	Semi Vol. Organics GC/MS	Trace Metals P.P. (13)	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E418.1	Lipids	Part. Size Dis.	Sediment Core Date	Purgeable Halocarbons E601	Remarks
SW-18	12/6	12/8 1015	7	SURFACE WATER	✓	✓			✓																✓				✓	
SW-19	"	"	7	" "	✓	✓			✓																✓				✓	
SW-20	"	"	7	" "	✓	✓			✓																✓				✓	
SW-21	"	"	7	" "	✓	✓			✓																✓				✓	
SD-18	"	"	2	SEDIMENTS			✓	✓	✓																✓					
SD-19	"	"	2	"			✓	✓	✓																✓					
SD-20	"	"	2	"			✓	✓	✓																✓					
SD-21	"	"	2	"			✓	✓	✓																✓					

G-10

Total No. Containers: 36

HANCOCK FIELD

SHIPPING CHAIN OF CUSTODY

~~Sold by~~ (sign) by	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	12/8	1015						
[redacted] Shipp[redacted]thod [redacted]ped [redacted]n) [redacted]			[redacted]ier Fr[redacted]port [redacted]	[redacted]	T[redacted]	Rece[redacted]y Co[redacted] Lab (sign) [redacted]	[redacted] Date [redacted]	Time [redacted]

SAIC™ Science Applications International Corporation

SAMPLE SHIPPING RECORD

Shipment No. 7 OF 7 (2)

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

CONSIGNEE

Name: SAIC
No., Street: 476 Prospect St.
City, State, Zip: La Jolla, CA 92038

(1) METHODS:
SW 8080, SW 8140,
SW 8150.

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics GC/MS	~~Semi~~ Organics Volatile	Vol. Organics	~~Semi~~ Vol. Organics GC/MS	Trace Metals PP (13)	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	PCBs SW 8080	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E418.1	Lipids	Part. Size Dis.	Sediment Core Date	PURGEABLE HALOCARBONS E601	Remarks
SW-22	12/6	12/8 1030	7	SURFACE WATER	✓	✓			✓																✓				✓	
SW-23	"	"	7	" "	✓	✓			✓																✓				✓	
SW-24	"	"	7	" "	✓	✓			✓																✓				✓	
SD-22	"	"	2	SEDIMENTS			✓		✓																✓					
SD-23	"	"	2	"			✓		✓																✓					
FB-1	"	"	1	TRIP BLANK			✓																							
TS-6	12/5	"	1	SOIL													✓								✓					
TS-7	12/5	"	1	"													✓								✓					
ES-1	"	"	1	" (1)							✓	✓																		
ES-2	"	"	1	"							✓	✓																		
ES-3	"	"	1	"							✓	✓																		

Total No. Containers: 31

HANCOCK FIELD

SHIPPING CHAIN OF CUSTODY								
~~Sai (by) (sign)~~ by [signature]	Date 12/8	Time 1030	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
Shipping Method	Shipped By (sign)		Courier From Airport (sign)	Date	Time	Received By Contract Lab (sign)	Date	Time

G-11

SAIC SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No Cooler 3 142

CONSIGNEE

Name: SAIC

No., Street: 476 Prospect. St.

City, State, Zip: LaJolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol. Organics	Surv. Vol. Organics	Trace Metals *	Other Inorganics +	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	Oil and Grease	Lipids	Part. Size Dis.	Sediment Core Date	Remarks
GW-1	12/13	12/15 1500	2	GROUND WATER					✓	✓																			
GW-2	12/13	"	2	" "					✓	✓																			
GW-8	12/15	"	2	" "					✓	✓																			
GW-9	12/15	"	2	" "					✓	✓																			
GW-10	12/15	"	2	" "					✓	✓																			

Total No. Containers:

* Co, Cr, Pb & Mn ONLY

ORTHOPHOSPHATE ONLY
METHOD A429
EPA METHOD 300

SHIPPING CHAIN OF CUSTODY

Shipped by (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	12/15	1500						
[redacted] Shi[redacted] Meth[redacted] Shippe[redacted] sign) [redacted]			Courier [redacted] Airport [redacted]	Date	Time	Received By Contract Lab (sign)	Date	Time

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. 3 COOLER 2.12

CONSIGNEE

Name: SAIC

No., Street: 476 Prospect St.

City, State, Zip: La Jolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol. Organics Aromatic	~~Surv.~~ Vol. Organics GC/MS	Trace Metals	Other Inorganics	Pesticides +	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E418.1	Lipids	Part. Size Dis.	Sediment Core Date	Purgeable Halocarbons E601	Remarks
GW-3	12/13	12/15 1530	2	Ground Water					1	✓																				
GW-4	"	"	2	" "					1	✓																				
GW-5	"	"	2	" "					1	✓																				
GW-6	"	"	2	" "					1	✓																				
GW-7	"	"	2	" "					1	✓																				
SW-17	12/15	"	7	Surface Water			✓		2																✓				✓	
SD-17	"	"	2	Sediments				✓	2																✓					

Total No. Containers:

1 - Metals Cd, Cr, Pb : Mn only
2 - Pb only

+ Orthophosphate only
Method A429
EPA Method 300

SHIPPING CHAIN OF CUSTODY

~~Sampled By (sign)~~ by	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	12/15	1530						
Shipping Method	**Shipped By (sign)**		**Courier From Airport (sign)**	**Date**	**Time**	**Received By Contract Lab (sign)**	**Date**	**Time**

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

Shipment No. ~~Cooler~~ 4 1-11

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

CONSIGNEE

Name: SAIC

No., Street: 476 Prospect St.

City, State, Zip: La Jolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol. Organics	Surv. Vol. Organics AROMATIC	Trace Metals	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E418.1	Lipids	Part. Size Dis.	Sediment Core Date	PURGEABLE HALOCARBONS E601	Remarks
GW-11	12/16	12/16 1540	3	GROUND WATER			✓																		✓				✓	
GW-12	"	"	3	"			✓																		✓				✓	
GW-13	"	"	3	"			✓																		✓				✓	
GW-14	"	"	3	"			✓																		✓				✓	
GW-15	"	"	3	"			✓																		✓				✓	
GW-16	"	"	3	"			✓																		✓				✓	
FB-1	•	"	1	TRIP BLANK			[illegible]																		✓					

Total No. Containers:

NOTE: RAPID TURNAROUND (≤ 8 DAYS)

SHIPPING CHAIN OF CUSTODY

(sign) By	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	12/16	1540						
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

SAIC™ Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. 5
cooler 1/2

CONSIGNEE

Name
SAIC

No., Street
476 Prospect St.

City, State, Zip
La Jolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol Organics Aromatics	Surv. Vol. Organics	Trace Metals Pb only	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	Oil and Grease E418.1	Lipids	Part. Size Dis.	Sediment Core Date	Purgeable Halocarbons E601	Remarks
GW-17	1/14/87	1/14 1700	6	Ground Water			✓		✓																✓				✓	
GW-18	1/14	1700	6	" "			✓		✓																✓				✓	
GW-19	1/14	1700	6	" "			✓		✓																✓				✓	
GW-20	1/14	1700	6	" "			✓		✓																✓				✓	

Total No. Containers: 24

SHIPPING CHAIN OF CUSTODY

Shipped By (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[illegible signature]	1/14/87	1700						
Shipping Method			Courier From Airport (sign)	Date	Time	Received By Contract Lab (sign)	Date	Time

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

Shipment No. 5
Cooler 2/2

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

CONSIGNEE

Name: SAIC
No., Street: 476 Prospect St.
City, State, Zip: La Jolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol. Organics Aromatics	Surv. Vol. Organics	Trace Metals Pb only	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	Oil and Grease E418.1	Lipids	Part. Size Dis.	Sediment Core Date	Purgeable Halocarbons E601	Remarks
GW-21	1/14/87	1/14 1715	6	Ground Water			✓		✓																✓				✓	
GW-22	1/14	"	6	" "			✓		✓																✓				✓	
GW-23	1/14	"	6	" "			✓		✓																✓				✓	
GW-24	1/14	"	6	" "			✓		✓																✓				✓	

Total No. Containers: 24

G-16

SHIPPING CHAIN OF CUSTODY

[redacted]) (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	1/14/87	1715						
Shipping Method / Shipped By (sign)			Courier From Airport (sign)	Date	Time	Received By Contract Lab (sign)	Date	Time

[redacted]-Lab[redacted]sent[redacted] [redacted]ink-C[redacted] Lab[redacted] Gol[redacted]-Lab Returns to SAI

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. 6
Cooler 1 & 2

CONSIGNEE

Name: SAIC
No., Street: 476 Prospect St.
City, State, Zip: La Jolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	~~Semi~~ Ext. Organics PP	Vol. Organics	Surv. Vol. Organics AROMATIC	Trace Metals (26)	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	Common Anions	TDS	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E418.1	Lipids	Part. Size Dis.	Sediment Core Date	PURGEABLES R-601	Remarks
GW-25	1/15	1/16 1500	11	GROUND WATER		✓	✓		✓								✓	✓							✓				✓	
GW-26	1/15	"	11	" "		✓	✓		✓								✓	✓							✓				✓	
GW-28	1/15	"	9	2 VOAS FROZE " "		✓	✓		✓								✓	✓							✓				✓	
GW-29	1/16	"	11	" "		✓	✓		✓								✓	✓							✓				✓	

Total No. Containers: 42

SHIPPING CHAIN OF CUSTODY

~~SAI~~ (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	1/16	1500						
Shipping Method / Shipped By (sign)			Courier From Airport (sign)	Date	Time	Received By Contract Lab (sign)	Date	Time

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. 6
Courier 2/2

CONSIGNEE

Name: SAIC
No., Street: 476 Prospect St.
City, State, Zip: La Jolla, CA 92038

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	~~Ext.~~ Ext. Organics PP	Vol. Organics	Surv. Vol. Organics Aromatic	Trace Metals (26)	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	Common Anions	~~TOC~~ TDS	BOD	TSS	VSS	DOC	POC	~~Oil and Grease~~ E418.1	Lipids	Part. Size Dis.	Sediment Core Date	Purgeables E601	Remarks
GW-30	1/16	1/16 1530	11	GROUND WATER		✓	✓		✓									✓	✓						✓				✓	
GW-31*	1/16	"	13	" "		✓	✓		✓									✓	✓						✓				✓	
GW-32	1/16	"	11	" "		✓	✓		✓									✓	✓						✓				✓	

Total No. Containers:

* EXTRA PETROLEUM HYDROCARBONS FOR LAB DUPE

G-18

SHIPPING CHAIN OF CUSTODY

~~SAI (by) (sign)~~ by	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[illegible]	1/16	1530						
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. #7 COOLER 1 OF 3

CONSIGNEE

Name: SAIC - LAB

No., Street: 476 PROSPECT

City, State, Zip: LAJOLLA, CA.

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol. Organics	Semi Vol. Organics	Trace Metals LEAD	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	Oil and Grease	Lipids	Part. Size Dis.	Sediment Core Date	Remarks
FS-B-1-2	9/12	9/14 1500	1	SOIL				✓																					
FS-C-1-2	"	"	1	"				✓																					
FS-C-2-2	"	"	1	"				✓																					
FS-D-1-2	"	"	1	"				✓																					
FS-D-2-2	"	"	1	"				✓																					
FS-E-1-2	"	"	1	"				✓																					
FS-E-2-2	"	"	1	"				✓																					
FS-F-1-2	"	"	1	"				✓																					
FS-F-2-2	"	"	1	"				✓																					
FS-G-1-2	"	"	1	"				✓																					
GW-9-2	9/14	"	2	GROUNDWATER					✓	✓																			
GW-6-2	"	"	2	"					✓	✓																			
GW-7-2	"	"	2	"					✓	✓																			
GW-8-2	"	"	2	"					✓	✓																			

Total No. Containers: → MILLI-Q - ACID BLANKS FOR LEAD & Hg

SHIPPING CHAIN OF CUSTODY

SAI (by) (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
Phil A. Jam[illegible]	9/14/87							
Shipping Method FED EXP. / **Shipped By (sign)**			**Courier From Airport (sign)**	**Date**	**Time**	**Received By Contract Lab (sign)**	**Date**	**Time**

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. #7 COOLER 1/3 CONT'D

CONSIGNEE

Name: SAIC LAB
No., Street: 476 PROSPECT
City, State, Zip: LA JOLLA, CA.

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol. Organics	Surv. Vol. Organics	Trace Metals MERCURY	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	Oil and Grease	Lipids	Part. Size Dis.	Sediment Core Date	Remarks
GW-28-2	9/14	9/14 1500	2	GROUNDWATER					✓	✓																			
GW-29-2	"	"	2	"					✓	✓																			
GW-30-2	"	"	2	"					✓	✓																			

Total No. Containers: 6

28 CONTAINERS IN THIS COOLER

SHIPPING CHAIN OF CUSTODY

SAI (by) (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	9/14							
Shipping Method: FED EX	Shipped By (sign)		Courier From Airport (sign)	Date	Time	Received By Contract Lab (sign)	Date	Time

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. 7 COOLER 2 of 3

CONSIGNEE

Name: SAIC LAB

No., Street: 476 PROSPECT ST

City, State, Zip: LA JOLLA, CA.

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics E601	Surv. Ext. Organics	Vol. Organics	Semi Vol. Organics 8020	Trace Metals 8250 MERCURY	Other Inorganics	Pesticides	Herbicides	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	Oil and Grease	Lipids	Part. Size Dis.	Sediment Core Date	Remarks
SW-4-2	9/13	9/14 1530	1	SURFACE WATER					✓																				
SW-5-2	"	"	1	" "					✓																				
SW-6-2	"	"	1	" "					✓																				
SW-7-2	"	"	1	" "					✓																				
SW-14-2	"	"	1	" "					✓																				
SW-18-2	"	"	3	" "	✓			✓	✓																				
SW-20-2	"	"	3	" "	✓			✓	✓																				
SW-21-2	"	"	3	" "	✓			✓	✓																				
SW-23-2	"	"	3	" "	✓			✓	✓																				
SW-31-2	"	"	4	" "	✓			✓																					
SW-32-2	"	"	4	" "	✓			✓																					
SD-4-2	"	"	1	SEDIMENTS					✓																				
SD-5-2	"	"	1	"					✓																				
SD-6-2	"	"	1	"					✓																				
	Total No. Containers		28																										

SHIPPING CHAIN OF CUSTODY

SAI (by) (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	9/14	1530						
Shipping Method	**Shipped By (sign)**		**Courier From Airport (sign)**	**Date**	**Time**	**Received By Contract Lab (sign)**	**Date**	**Time**
Fed Ex.								

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No. #7 COOLER 3 of 3

CONSIGNEE

Name: SAIC LAB
No., Street: 476 PROSPECT
City, State, Zip: LaJolla, CA.

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol. Organics	Surv. Vol. Organics	Trace Metals MERCURY	Other Inorganics	Pesticides CHLOR; PHOS	Herbicides CHLOR	LMWHC	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	POC	Oil and Grease	Lipids	Part. Size Dis.	Sediment Core Date	Remarks
SD-7-2	9/13	9/14 1600	1	SEDIMENT					✓																				
SD-14-2	"	"	1	"					✓																				
SD-18-2	"	"	1	"					✓																				
SD-20-2	"	"	1	"					✓																				
SD-21-2	"	"	1	"					✓																				
SD-23-2	"	"	1	"					✓																				
EW-1-2	9/14	"	6	TANK WATER							✓	✓																	

Total No. Containers: 12

SHIPPING CHAIN OF CUSTODY

SAI (by) (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[illegible signature]	9/14	1600						
Shipping Method	**Shipped By (sign)**		**Courier From Airport (sign)**	**Date**	**Time**	**Received By Contract Lab (sign)**	**Date**	**Time**
[redacted]								

SAIC Science Applications International Corporation

SAMPLE SHIPPING RECORD

DIVISION OF ENVIRONMENTAL CHEMISTRY AND GEOCHEMISTRY
476 PROSPECT STREET, LA JOLLA, CA 92038 • (619) 456-2791

Shipment No.
#8 COOLER 1-11

CONSIGNEE

Name: SAIC LAB
No., Street: 476 PROSPECT
City, State, Zip: LA JOLLA, CA.

SAMPLE ANALYSIS

Sample No.	Sample Date	Packed Time	No. Containers	Sample Description	Ext. Organics	Surv. Ext. Organics	Vol. Organics	Surv. Vol. Organics	Trace Metals LEAD	Other Inorganics MERCURY	Pesticides	Herbicides	~~[illegible]~~ ORTHOPHOSPHATE	HMWHC	Radionuclides	Drugs	Cyanide	pH	TOC	BOD	TSS	VSS	DOC	PO	Oil and Grease	Lipids	Part. Size Dis.	Sediment Core Date	Remarks
GW-10-2	9/15	9/5 1100	2	GROUNDWATER					✓				✓																
GW-4-2	"	"	2	"					✓				✓																
GW-3-2	"	"	2	"					✓				✓																
GW-1-2	"	"	2	"					✓				✓																
GW-2-2	"	"	2	"					✓				✓																
GW-5-2	"	"	2	"					✓				✓																
GW-31-2	"	"	2	"						✓			✓																
GW-32-2	"	"	2	"						✓			✓																
GW-25-2	"	"	2	"						✓			✓																
GW-26-2	"	"	2	"						✓			✓																
	Total No. Containers		20																										

NOTE: 48 HR. HOLDING TIME FOR ORTHOPHOSPHATE.

SHIPPING CHAIN OF CUSTODY

SAI (by) (sign)	Date	Time	Received By (sign)	Date	Time	Received By Courier (sign)	Date	Time
[signature]	9/15	1100						
Shipping Method / Shipped By (sign)			**Courier From Airport (sign)**	**Date**	**Time**	**Received By Contract Lab (sign)**	**Date**	**Time**

SAIC Science Applications International Corporation
An Employee-Owned Company

Chain of Custody Record

Date 10/14/84 Page 1 of 1

Shipment No. 9 1/1

Name: Bill Spooner
Address: EIC McClellan
Phone Number: 303 824 8101
Project Manager:
Project Name: Hancock Field D.
Job/P.O. No.:
Sampler (Signature) (Printed Name)

Requested Parameters:
1. NO3 Alkalinity Cl, sulfate
2. Common Anions A429*
3. TDS E160.1
4. [illegible] E418.1
5. [illegible] E601
6. Aromatic Vols. SW8020
7. [illegible]
8. Extractables 8625

Laboratory No.	Matrix	Sample No.	Date	Time	Site/Zone	1	2	3	4	5	6	7	8	No. of Containers
	Water	GW 33	10/19	1315	D-5	✓	✓	✓	✓	✓	✓	✓	✓	
	"	GW 34	10/19	10:15	"	✓	✓	✓	✓	✓	✓	✓	✓	
	"	GW 35	10/19	12:15	"	✓	✓	✓	✓	✓	✓	✓	✓	
	"	GW 36	10/19	1545	"	✓	✓	✓	✓	✓	✓	✓	✓	
	"	GW 37	10/19	1415	"	✓	✓	✓	✓	✓	✓	✓	✓	

Laboratory Name: SAIC
Address: [illegible]
Phone:
Contact Name: [redacted]

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

* Note: ≤48 hr Holding Time

Relinquished by
Signature: L. A. Simm.
Printed Name:
Company:
Date: 10/19/84 Time: 1615

Received by [redacted]
Printed Name
Company
Date: 10/20/84 Time

Relinquished by
Signature:
Printed Name:
Company:
Date Time

Total Number of Containers:

Shipment Method:

Instructions

1. Fill out form completely except for shaded areas (lab use only).
2. Complete in ballpoint pen. Draw one line through errors and initial.
3. Request analyses using EPA method [redacted]y. Consult the project QAPP for instructions. Complete as shown.
4. Reference all field QC samples to the applicable site or zone
5. Note all applicable preservatives
6. Group all sample containers and requested analyses from one sampling [redacted]n tog[redacted]o not [redacted]dual[redacted]

SAIC Location (circle)
Washington, D.C 8400 Westpark Dr., McLean, VA 22102 (703) 734-2500
Oakridge 800 Oakridge Tnpk. Oakridge, TN 37830 (615) 482-9031
Paramus One Sears Drive, Paramus, NJ 07652 (201) 599-0100
Denver 1626 Cole Boulevard, Suite 270, Golden, CO 80401 (303) 231-9084
Seattle 13400B Northup Way, S38, Bellevue, WA 98005 (206) 747-7000
San Diego 4224 Camp[redacted] Building 2, San Diego, CA 92121 [redacted]9) 535[redacted]

8657

(541.001)

Science Applications International Corporation
An Employee-Owned Company

Chain of Custody Record

Date 9-2-88 Page 1 of 3

Shipment No. 10

Name John J King - SAIC
Address 1 Sears Dr Paramus, NJ 07003
Phone Number (201) 599-0100
Project Manager Phil Spooner
Project Name Hancock Field, Syracuse, NY
Job/P.O. No. 1-885-06-624-90

Sampler (Signature) John J King (Printed Name) John J King

Laboratory Name E&E Laboratory
Address 4295 Genesee St. Buffalo, NY 14225
Phone (716) 631-0360
Contact Name Gary Hahn or Andy Clifton

Laboratory No.	Matrix	Sample No.	Date	Time	Site/Zone	Requested Parameters: SW 5030/8240 Volatile Organics													NO. OF CONTAINERS	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
28144	Soil	FSA-1	8-31-88	1550	FT1	✓													1	
45	"	FSA-2	"	1550	"	✓													1	
46	"	FSA-3	"	1555	"	✓													1	
47	"	FSA-4	"	1555	"	✓													1	
48	"	FSB-1	"	1609	"	✓													1	
49	"	FSB-2	"	1615	"	✓													1	
28150	"	FSB-3	"	1621	"	✓													1	
51	"	FSC-1	"	1625	"	✓													1	
52	"	FSC-2	"	1631	"	✓													1	
53	"	FSC-3	"	1637	"	✓													1	
54	"	FSD-1	"	1641	"	✓													1	
55	"	FSD-2	"	1644	"	✓													1	
28156	"	FSD-3	"	1648	"	✓													1	

Relinquished by
Signature John J King
Printed Name John J King
Company SAIC
Date 9/2/88
Time 1330

Received by [redacted]
Date
Time

Relinquished by
Signature FED. EXP.
Printed Name
Company
Date 9/6/88
Time

Date
Time

Total Number of Containers:

Shipment Method: Fed Ex

Instructions

1. Fill out form completely except for shaded areas (lab use only).
2. Complete in ballpoint pen. Draw one line through errors and initial.
3. Request analyses using EPA method method numbers only. Consult the project QAPP for instructions. Complete as shown.
4. Reference all field QC samples to the applicable site or zone.
5. Note all applicable preservatives.
6. Group all sample containers and requested analyses from one sampling location together. Do not list individually.

SAIC Location (circle)

Washington, D.C.
8400 Westpark Dr., McLean, VA 22102
(703) 734-2500

Oakridge
800 Oakridge Tnpk., Oakridge, TN 37830
(615) 482-9031

Paramus
One Sears Drive, Paramus, NJ 07652
(201) 599-0100

Denver
1626 Cole Boulevard, Suite 270, Golden, CO 80401
(303) 231-9884

Seattle
13400B Northup Way, S38, Bellevue, WA 98005
(206) 747-7800

San Diego
4224 Campus Point, Building 3, San Diego, CA 92121
(619) 535-7438

Science Applications International Corporation ■ 8400 Westpark Drive, McLean, Virginia 22102 White: Laboratory Pink: Project Manager Yellow: Project QAO Goldenrod: Field Sample Manager

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Chain of Custody Record

Date 9-2-88 Page 2 of 3

Shipment No. 10

Name John J King -SAIC
Address 1 Sears Dr Paramus, NJ 07003
Phone Number (201) 599-0100
Project Manager Phil Spooner
Project Name Hancock Field, Syracuse, NY
Job/P.O. No. 1-885-06-624-90

Sampler (Signature) John J King (Printed Name) John J King

Laboratory Name E&E Laboratory
Address 4285 Genesee St, Buffalo, NY 14225
Phone (716) 631-0360
Contact Name Gary Hahn or Andy Clifton

Laboratory No.	Matrix	Sample No.	Date	Time	Site/Zone	Requested Parameters: SW5030/8240 Volatile Organics	No. of Containers	Observations, Comments, Special Instructions
28157	Soil	FSE-1	8-31-88	1703	FT1	✓	1	
58	"	FSE-2	"	1707	"	✓	1	
59	"	FSE-3	"	1710	"	✓	1	
28160	"	FSF-1	"	1717	"	✓	1	
61	"	FSF-2	"	1719	"	✓	1	
62	"	FSF-3	"	1722	"	✓	1	
63	"	FSG-1	"	1733	"	✓	1	
64	"	FSG-2	"	1737	"	✓	1	
65	"	FSG-3	"	1740	"	✓	1	
66	"	FSH-1	"	1746	"	✓	1	
67	"	FSH-2	"	1747	"	✓	1	
68	"	FSH-3	"	1750	"	✓	1	
28169	"	FSH-4	"	1750	"	✓	1	

Relinquished by	Date / Time	Received by	Date / Time
Signature: John J King; Printed Name: John J King; Company: SAIC	Date 9/2/88; Time 1330	Signature: FED EXP; Printed Name: [illegible]; Company: [illegible]	Date; Time
Relinquished by — Signature: FED EXP; Printed Name; Company	Date 9/6/88; Time	Received by — Signature: [illegible]; Printed Name: [illegible]; Company: [illegible]	Date; Time

Total Number of Containers:

Shipment Method: Fed Ex

Instructions

1. Fill out form completly except for shaded areas (lab use only).
2. Complete in ballpoint pen. Draw one line through errors and initial.
3. Request analyses using EPA method method numbers only. Consult the project QAPP for instructions. Complete as shown.
4. Reference all field QC samples to the applicable site or zone.
5. Note all applicable preservatives.
6. Group all sample containers and requested analyses from one sampling location together. Do not list individually

SAIC Location (circle)

Washington, D.C. 8400 Westpark Dr., McLean, VA 22102 (703) 734-[illegible]
Oakridge 800 Oakridge Tnpk., Oakridge, TN 37830 (615) 482-[illegible]
Paramus One Sears Drive, Paramus, NJ 07652 (201) 599-[illegible]
Denver 1626 Cole Boulevard, Suite 270, Golden, CO 80401 (303) 231-[illegible]
Seattle 13400B Northup Way, S38, Bellevue, WA 98005 (206) 747-[illegible]
San Diego 4224 Campus Point, Building 3, San Diego, CA 92121 (619) 535-[illegible]

Science Applications International Corporation ■ 8400 Westpark Drive, McLean, Virginia 22102

White: Laboratory Pink: Project Manager Yellow: Project QAO Goldenrod: Field Sample Manager

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Chain of Custody Record

Date 9-2-88 Page 3 of 3

Shipment No. 10

Name John J King - SAIC
Address 1 Sears Dr. Paramus, NJ 07003
Phone Number (201) 599-0100
Project Manager Emil Spooner
Project Name Hancock Field, Syracuse, NY
Job/P.O. No. 1-885-06-624-90

Sampler (Signature) John J King (Printed Name) John J King

Laboratory Name E&E Laboratory
Address 4285 Genesee St. Buffalo, NY 14225
Phone (716) 631-0360
Contact Name Gary Hahn or Andy Clifton

Requested Parameters: SW5030/8240 Volatile Organics; SW5030/8020 Aromatic Volatiles

Laboratory No.	Matrix	Sample No.	Date	Time	Site/Zone	SW5030/8240 Volatile Organics	SW5030/8020 Aromatic Volatiles	No. of Containers	Observations, Comments, Special Instructions
28170	Soil	FSI-1	8-31-88	1800	FT1	✓		1	
71	Ground Water	GW-1	9-1-88	1611	D-5		✓	2	Second Column Confirmation
72	"	GW-2	9-2-88	0936	"		✓	2	" " "
73	"	GW-3	9-1-88	1601	"		✓	2	" " "
74	"	GW-4	9-2-88	0936	"		✓	2	" " "
75	"	GW-5	9-2-88	1043	"		✓	2	" " "
28176	"	GW-6	9-2-88	0900	"		✓	2	" " "

Relinquished by
Signature John J King
Printed Name John J King
Company SAIC
Date 9/2/88
Time 1330

Received by
Signature FED. EXP
Printed Name
Company
Date
Time

Relinquished by
Signature FED EXP
Printed Name
Company
Date 9/6/88
Time

Received by
Signature [illegible]
Printed Name RICH [illegible]
Company E&E
Date
Time

Total Number of Containers: 39

Shipment Method: FedEx

Instructions

1. Fill out form completely except for shaded areas (lab use only).
2. Complete in ballpoint pen. Draw one line through errors and initial.
3. Request analyses using EPA method method numbers only. Consult the project QAPP for instructions. Complete as shown.
4. Reference all field QC samples to the applicable site or zone.
5. Note all applicable preservatives.
6. Group all sample containers and requested analyses from one sampling location together. Do not list individually.

SAIC Location (circle)

Washington, D.C. 8400 Westpark Dr., McLean, VA 22102 (703) 734-2800
Oakridge 800 Oakridge Tnpk., Oakridge, TN 37830 (615) 482-9031
Paramus One Sears Drive, Paramus, NJ 07652 (201) 599-0100
Denver 1626 Cole Boulevard, Suite 270, Golden, CO 80401 (303) 231-9994
Seattle 13400B Northup Way, S38, Bellevue, WA 98005 (206) 747-7000
San Diego 4224 Campus Point, Building 3, San Diego, CA 92121 (619) 535-7438

Science Applications International Corporation ■ 8400 Westpark Drive, McLean, Virginia 22102

White: Laboratory Pink: Project Manager Yellow: Project QAO Goldenrod: Field Sample Manager

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Chain of Custody Record

Date 1-5-89 Page 1 of 1

Shipment No. # 11

Name SAIC - John J King
Address 9400 Westpark Dr McLean VA 22102
Phone Number (703) 827-8101
Project Manager Phil Spooner
Project Name Hancock Fld ANGB IRP
Job/P.O. No. 1-827-06-624-XX

Sampler (Signature) John J King (Printed Name) John J King

Laboratory Name Ecology & Environment
Address ~~Foo~~ 225 Gentry St. ~~Bay Rd Bor Apt~~
Buffalo, NY 14225
Phone (716) 631-0360
Contact Name Andy Clifton

Requested Parameters

Laboratory I.D.	Matrix	Sample No.	Date	Time	Site/Zone	Total Thallium SW7841 SW3020	Dissolved Thallium SW7841 SW3020	No. of Containers	Observations, Comments, Special Instructions
	Ground Water	GW-1	1-4-89	1600	0-5 Blank	✓	✓	2	Dissolved Thallium samples filtered through 0.45 micron filter; All preserved
	"	GW-2	1-4-89	1130	0-5 MW16	✓	✓	2	with HNO_3 to pH < 2
	"	GW-3	1-5-89	1200	0-5 MW17	✓	✓	2	
	"	GW-4	1-5-89	1215	0-5 MW18	✓	✓	2	

Total Number of Containers: 8
Shipment Method: Fed Ex

Relinquished by	Date / Time	Received by	Date / Time
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Signature: Fed Express; [redacted] Name	1/6/89 / 9:3[redacted]	Signature: David Baier E & E; [redacted] Name	1/6/89 / 9:[redacted]

Instructions

1. Fill out form completely except for shaded areas (lab use only).
2. Complete in ballpoint pen. Draw one line through errors and initial.
3. Request analyses using EPA method method numbers only. Consult the project QAPP for instructions. Complete as shown.
4. Reference all field QC samples to the applicable site or zone.
5. Note all applicable preservatives.
6. G[redacted] samp[redacted]iners [redacted]

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San Diego

** TOTAL PAGE.006 **

APPENDIX H: ANALYTICAL DATA

TABLE H-1
SAMPLE IDENTIFICATION CROSS REFERENCE
ZONE 1

Lab Number	Field Number	Description	Page
Site FT-1 & D-5			
09/160440	01+	Ground water, MW-8	H-34
09/160441	02+	Ground water, MW-9	H-37
09/160442	03+	Ground water, MW-7	H-40
09/160443	04+	Ground water, MW-7 (Duplicate)	H-42
09/160444	05+	Field Blank	H-46
09/160445	06+	Ground water, GW-10	H-50
*10/160812	01	Ground water, MW-8	H-70
*10/160813	02	Ground water, MW-9	H-71
*10/160814	03	Ground water, MW-7	H-72
*10/160815	04	Ground water, MW-7 (Duplicate)	H-73
*10/160816	05	Field Blank	H-74
*10/160817	06	Ground water, GW-10	H-75
86353004	GW-1**	Ground water, MW-7	H-206
86353005	GW-2**	Ground water, MW-7 (Duplicate)	H-206
86353009	GW-3**	Ground water, MW-8	H-206
86353010	GW-4**	Ground water, MW-9	H-207
86353011	GW-5**	Ground water, MW-10	H-207
86353016	GW-11	Ground water, MW-11	H-217, (H-224)*
86353017	GW-12	Ground water, MW-11D	H-217, (H-224)*
86353018	GW-13	Ground water, MW-12	H-217, (H-224)*
86353019	GW-14	Ground water, MW-12D	H-217, (H-224)*
86353020	GW-15	Ground water, MW-13	H-217, (H-224)*
86353021	GW-16	Ground water, MW-13D	H-217, (H-224)*
86353022	FB-1	Trip Blank (Petroleum hydrocarbons only).	H-219

*Second Column Confirmation
**Holding times exceeded for only orthophosphate; resampled in Sept. 1987 and analyzed for lead and orthophosphate; See Page H-305 for new results.
+Stage 1 wells resampled 12/86; See page H-207 for new results.

TABLE H-1
SAMPLE IDENTIFICATION CROSS REFERENCE
ZONE 1 (Continued)

Lab Number	Field Number	Description	Page
87016016	GW-17	Ground water, MW-12	H-229, (H-236)*
87016017	GW-18	Ground water, MW-12D	H-229, (H-236)*
87016018	GW-19	Field Blank	H-229, (H-236)*
87016019	GW-20	Bailer wash	H-229, (H-236)*
87016020	GW-21	Ground water, MW-11	H-229, (H-236)*
87016021	GW-22	Ground water, MW-11D	H-229, (H-236)*
87016022	GW-23	Ground water, MW-13	H-232, (H-238)*
87016023	GW-24	Ground water, MW-13D	H-232, (H-238)*
Site FT-1**			
86329006	FS-A-1	Soil, A-1	H-81
86329007	FS-A-2	Soil, A-2	H-81
86329008	FS-A-3	Soil, A-3	H-81
86329009	FS-A-4	Soil, A-3 (Duplicate)	H-81
86329010	FS-B-1***	Soil, B-1	H-81
86329011	FS-B-2	Soil, B-2	H-81
86329012	FS-B-3	Soil, B-3	H-87
86329013	FS-C-1***	Soil, C-1	H-87
86329014	FS-C-2***	Soil, C-2	H-87
86329015	FS-C-3	Soil, C-3	H-87
86329016	FS-D-1***	Soil, D-1	H-87
86329017	FS-D-2***	Soil, D-2	H-87
86329018	FS-D-3	Soil, D-3	H-92
86329019	FS-E-1***	Soil, E-1	H-92

*Second Column Confirmation
**Holding time exceeded for volatile organics; resampled in August 1988; see pages H-350 to H-375 for sample identification cross reference, holding times, and analytical results.
***Holding time exceeded only for semivolatile organics; resampled in Sept. 1987; see Page H-298 - H-301 for the new results.

TABLE H-1
SAMPLE IDENTIFICATION CROSS REFERENCE
ZONE 1 (Continued)

Lab Number	Field Number	Description	Page
86329020	FS-E-2**	Soil, E-2	H-92
86329021	FS-E-3	Soil, E-3	H-92
86329022	FS-F-1**	Soil, F-1	H-92
86329023	FS-F-2**	Soil, F-2	H-92
86329024	FS-F-3	Soil, F-3	H-96
86329025	FS-G-1**	Soil, G-1	H-96
86329028	FS-G-2	Soil, G-2	H-96
86329029	FS-G-3	Soil, G-3	H-96
86329030	FS-H-1	Soil, H-1	H-96
86329031	FS-H-2	Soil, H-2	H-101
86329032	FS-H-3	Soil, H-3	H-101
86329033	FS-H-4	Soil, H-3 (Duplicate)	H-101
86329034	FS-I-1	Soil, I-1 (Background)	H-101
<u>Site FT-1 & D-5</u>			
86350016	SW-4+	Surface water, Station SW/SD-4	H-117, (H-188)*
86350020	SD-4+	Sediment, Station SW/SD-4	H-122
86350021	SW-5+	Surface water, Station SW/SD-5	H-124, (H-190)*
86350022	SW-6+	Surface water, Station SW/SD-6	H-124, (H-190)*
86350023	SW-7+	Surface water, Station SW/SD-7	H-124, (H-190)*
86350024	SW-8	Surface water, Station SW/SD-8	H-124, (H-190)*
86350025	SD-5+	Sediment, Station SW/SD-5	H-131
86350026	SD-6+	Sediment, Station SW/SD-6	H-131

*Second Column Confirmation

**Holding time exceeded for only semivolatile organics; resampled in Sept. 1987; see pages H-300 - H-303 for new results.

+Holding time exceeded for only mercury; resampled in Sept. 1987; see page H-305 for new results.

TABLE H-1
SAMPLE IDENTIFICATION CROSS REFERENCE
ZONE 1 (Continued)

Lab Number	Field Number	Description	Page
86350027	SD-7**	Sediment, Station SW/SD-7	H-131
86350028	SD-8	Sediment, Station SW/SD-8	H-131
86350029	SW-9	Surface water, Station SW/SD-9	H-131, (H-192)*
86350030	SW-10	Surface water, Station SW/SD-10	H-131, (H-192)*
86350031	SW-11	Surface water, Station SW/SD-11	H-138, (H-194)*
86350032	SW-12	Surface water, Station SW/SD-12	H-138, (H-194)*
86350033	SD-9	Sediment, Station SW/SD-9	H-138
86350034	SD-10	Sediment, Station SW/SD-10	H-138
86350035	SD-11	Sediment, Station SW/SD-11	H-138
86350036	SD-12	Sediment, Station SW/SD-12	H-138
86350037	SW-13	Surface water, Station SW/SD-13	H-145, (H-196)*
86350038	SW-14**	Surface water, Station SW/SD-14	H-145, (H-196)*
86350039	SW-15	Surface water, Station SW/SD-15	H-145, (H-196)*
86350040	SW-16	Surface water, Station SW/SD-16	H-145, (H-196)*
86350041	SD-13	Sediment, Station SW/SD-13	H-145
86350042	SD-14**	Sediment, Station SW/SD-14	H-145
86350043	SD-15	Sediment, Station SW/SD-15	H-152
86350044	SD-16	Sediment, Station SW/SD-16	H-152
86350054	SW-23+	Surface water, Station SW/SD-1 (Duplicate)	H-159, (H-200)*
86350055	SW-24	Field Blank	H-166, (H-202)*
86350057	SD-23	Sediment, Station SW/SD-1 (Duplicate)	H-166
86353014	SW-17	Surface water, Station SW/SD-17	H-207, (H-214)*
86353015	SD-17	Sediment, Station SW/SD-17	H-207

*Second Column Confirmation

**Holding time exceeded for only mercury; resampled in Sept. 1987; see page H-305 for new results.

+Holding time exceeded for purgeable halocarbons; resampled in Sept. 1987; see page H-297 for new results.

TABLE H-2
SAMPLE IDENTIFICATION CROSS REFERENCE
ZONE 2

Lab Number	Field Number	Description	Page
Site D-1 and D-3			
09/160587	07+	Ground water, MW-5	H-54
09/160588	08+	Ground water, MW-3	H-57
09/160589	09+	Ground water, MW-2	H-60
09/160590	10+	Ground water, MW-1	H-63
09/160591	11+	Ground water, MW-6	H-66
*10/160809	07+	Ground water, MW-5	H-77
*10/160810	08+	Ground water, MW-3	H-78
*10/160811	11+	Ground water, MW-6	H-79
86353006	GW-8**	Ground water, MW-2	H-206
86353007	GW-9**	Ground water, MW-5	H-206
86353008	GW-10**	Ground water, MW-6	H-206
86353012	GW-6**	Ground water, MW-3	H-207
86353013	GW-7**	Ground water, MW-1	H-207
87020007	GW-25++	Ground water, MW-15	H-241, (H-247)*
87020008	GW-26++	Ground water, MW-15D	H-241, (H-247)*
87020009	GW-28++	Ground water, MW-3D	H-241, (H-247)*
87020010	GW-29++	Ground water, MW-14	H-241, (H-247)*
87020011	GW-30++	Ground water, MW-14D	H-241, (H-247)*
87020012	GW-31++	Ground water, MW-6D	H-241, (H-247)*
87020013	GW-32++	Ground water, MW-6D (Duplicate)	H-249, (H-259)*

*Second Column Confirmation

**Holding times exceeded for only orthophosphate; resampled in Sept. 1987 and analyzed for lead and orthophosphate; see pages H-306 and H-307 for new results.
+Stage 1 wells resampled 12/86; See page H-207 for new results.
++Holding times exceeded for mercury and orthophosphate; resampled in Sept. 1987; see page H-305 for new results.

TABLE H-2
SAMPLE IDENTIFICATION CROSS REFERENCE
ZONE 2 (Continued)

Lab Number	Field Number	Description	Page
Site D-1 & D-3			
86350013	SW-1	Surface water, Station SW/SD-1	H-117, (H-188)*
86350014	SW-2	Surface water, Station SW/SD-2	H-117, (H-188)*
86350015	SW-3	Surface water, Station SW/SD-3	H-117, (H-188)*
86350017	SD-1	Sediment, Station SW/SD-1	H-117
86350018	SD-2	Sediment, Station SW/SD-2	H-117
86350019	SD-3	Sediment, Station SW/SD-3	H-124
86350045	SW-18**	Surface water, Station SW/SD-18	H-152, (H-198)*
86350046	SW-19	Surface water, Station SW/SD-19	H-152, (H-198)*
86350047	SW-20**	Surface water, Station SW/SD-20	H-152, (H-198)*
86350048	SW-21**	Surface water, Station SW/SD-21	H-152, (H-198)*
86350049	SD-18+	Sediment, Station SW/SD-18	H-159
86350050	SD-19	Sediment, Station SW/SD-19	H-159
86350051	SD-20+	Sediment, Station SW/SD-20	H-159
86350052	SD-21+	Sediment, Station SW/SD-21	H-159
86350053	SW-22	Surface water, Station SW/SD-4 (Duplicate)	H-159, (H-200)*
86350056	SD-22	Surface sediment, Station SW/SD-4 (Duplicate)	H-164

*Second Column Confirmation

**Holding times exceeded for purgeable halocarbons, aromatic volatile organics and murcury; resampled for the parameter in Sept. 1987; see page H-296 for new results.

+Holding times exceeded for mercury; resampled in Sept. 1987; see page H-305 for new results.

TABLE H-2
SAMPLE IDENTIFICATION CROSS REFERENCE
ZONE 2 (Continued)

Lab Number	Field Number	Description	Page
Site SP-1 (Old Spill Area)			
86350002	SW-30	Surface water, SW-30 At outfall from Sage Plant	H-105, (H-184)*
86350003	SW-31**	Surface water, SW-31 50 feet downstream of outfall from Sage Plant	H-105, (H-184)*
86350004	SW-32**	Surface water, SW-32 100 feet downstream of outfall from Sage Plant	H-105, (H-184)*
86350005	SD-30	Sediment, SD-30 At outfall from Sage Plant	H-105
86350006	SD-31	Sediment, SD-31 50 feet downstream of outfall from Sage Plant	H-105
86350007	SD-32	Sediment, SD-32 100 feet downstream of outfall from Sage Plant	H-113
Site S-1 (Transformer Storage Area)			
86350008	TS-1	Soil, 1, Northwest half of northeast wall by transformer storage racks	H-113, (H-187)*
86350009	TS-2	Soil, 2, Southeast half of northeast wall by transformer storage racks	H-113, (H-187)*
86350010	TS-3	Soil, 3, midpoint of south-east wall	H-113, (H-187)*

*Second column confirmation

**Holding times exceeded for purgeable halocarbons, aromatic volatile organics and mercury; resampled for the parameters in Sept. 1987; see page H-297 for new results.

TABLE H-2
SAMPLE IDENTIFICATION CROSS REFERENCE
ZONE 2 (Continued)

Lab Number	Field Number	Description	Page
Site S-1 (Transformer Storage Area)			
86350011	TS-4	Soil, 4, Center floor of building	H-113, (H-187)*
86350012	TS-5	Soil, 5, Midpoint of south-west wall	H-113, (H-187)*
86350059	TS-6	Soil, 6, Midpoint of northwest wall, near door	H-166
86350060	TS-7	Soil, 6, Duplicate	H-166
Site S-3 (Entomology Underground Storage Tank)			
86350001	EW-1**	Water, Contents of tank sampled from access pipe	H-105, (H-184)*
86350061	ES-1	Soil, 1, Sample at .66' depth approximately 20 feet downslope from tank	H-179, (H-204)*
86350062	ES-2	Soil, 2, Sample at 1.5' depth approximately 20 feet downslope from tank	H-179, (H-204)*
86350063	ES-3	Soil, 3, Sample at 3.0' depth approximately 20 feet downslope from tank	H-179, (H-204)*

*Second Column Confirmation

**Holding times exceeded for organochlorine pesticides/PCBs, organophosphorus pesticides and chlorinated herbicides; resampled in Sept. 1987; see page H-304 fo: new results.

TABLE H-3-A

INITIAL SAMPLING OF EXISTING WELLS

SEPTEMBER, 1986

Laboratory ID Number(s)	Field ID Number(s)	Sampling Point ID
09/160440	01	MW-8
*10/160812	01	
09/160441	02	MW-9
*10/160813		
09/160442	03	MW-7
*10/160814		
09/160443	04	MW-7 Duplicate
*10/160815		
09/160444	05	Field Blank
*10/160816		
09/160445	06	MW-10
*10/160817		
09/160587	07	MW-5
*10/160809		
09/160588	08	MW-3
*10/160810		
09/160589	09	MW-2
09/160590	10	MW-1
09/160591	11	MW-6
*10/160811		

* Second Column Confirmation

TABLE H-3-B

RESAMPLING OF EXISTING WELLS

DECEMBER, 1986

Laboratory ID Number	Field ID Number	Sampling Point ID
86353004	GW-1	MW-7
86353005	GW-2	MW-7 Duplicate
86353009	GW-3	MW-8
86353010	GW-4	MW-9
86353011	GW-5	MW-10
86353012	GW-6	MW-3
86353013	GW-7	MW-1
86353006	GW-8	MW-2
86353007	GW-9	MW-5
86353008	GW-10	MW-6

TABLE H-3-C

ZONE 1 SAMPLING
SITE FT-1-SOILS

Laboratory ID Number	Field ID Number	Date Sampled	Sampling Point ID
86329006	FS-A-1	11/18/86	A-1
86329007	FS-A-2	11/18/86	A-2
86329008	FS-A-3	11/19/86	A-3
86329009	FS-A-4	11/19/86	A-3 Duplicate
86329010	FS-B-1	11/18/86	B-1
86329011	FS-B-2	11/18/86	B-2
86329012	FS-B-3	11/18/86	B-3
86329013	FS-C-1	11/18/86	C-1
86329014	FS-C-2	11/18/86	C-2
86329015	FS-C-3	11/18/86	C-3
86329016	FS-D-1	11/18/86	D-1
86329017	FS-D-2	11/18/86	D-2
86329018	FS-D-3	11/18/86	D-3
86329019	FS-E-1	11/18/86	E-1
86329020	FS-E-2	11/18/86	E-2
86329021	FS-E-3	11/19/86	E-3
86329022	FS-F-1	11/19/86	F-1
86329023	FS-F-2	11/19/86	F-2
86329024	FS-F-3	11/19/86	F-3
86329025	FS-G-1	11/19/96	G-1
86329028	FS-G-2	11/19/86	G-2
86329029	FS-G-3	11/19/86	G-3
86329030	FS-H-1	11/19/86	H-1
86329031	FS-H-2	11/19/86	H-2
86329032	FS-H-3	11/19/86	H-3
86329033	FS-H-4	11/19/86	H-3 Duplicate
86329034	FS-I-1	11/19/86	I-1 Background

TABLE H-3-D

SURFACE WATER/SEDIMENT SAMPLES

Laboratory ID Number	Field ID Number	Date Sampled	Sampling Point ID
86350013	SW-1	12/6/86	SW/SD-1
86350017	SD-1	12/6/86	
86350014	SW-2	12/6/86	SW/SD-2
86350018	SD-2	12/6/86	
86350015	SW-3	12/6/86	SW/SD-3
86350019	SD-3	12/6/86	
86350016	SW-4	12/6/86	SW/SD-4
86350020	SD-4	12/6/86	
86350021	SW-5	12/6/86	SW/SD-5
86350025	SD-5	12/6/86	
86350022	SW-6	12/6/86	SW/SD-6
86350026	SD-6	12/6/86	
86350023	SW-7	12/6/86	SW/SD-7
86350027	SD-7	12/6/86	
86350024	SW-8	12/6/86	SW/SD-8
86350028	SD-8	12/6/86	
86350029	SW-9	12/6/86	SW/SD-9
86350033	SD-9	12/6/86	
86350030	SW-10	12/6/86	SW/SD-10
86350034	SD-10	12/6/86	
86350031	SW-11	12/6/86	SW/SD-11
86350035	SD-11	12/6/86	
86350032	SW-12	12/6/86	SW/SD-12
86350036	SD-12	12/6/86	
86350037	SW-13	12/6/86	SW/SD-13
86350041	SD-13	12/6/86	

TABLE H-3-D (Continued)

Laboratory ID Number	Field ID Number	Date Sampled	Sampling Point ID
86350038	SW-14	12/6/86	SW/SD-14
86350042	SD-14	12/6/86	
86350039	SW-15	12/6/86	SW/SD-15
86350043	SD-15	12/6/86	
86350039	SW-16	12/6/86	SW/SD-16
86350044	SD-16	12/6/86	
86353014	SW-17	12/6/86	SW/SD-17
86353015	SD-17	12/6/86	
86350045	SW-18	12/6/86	SW/SD-18
86350049	SD-18	12/6/86	
86350046	SW-19	12/6/86	SW/SD-19
86350050	SD-19	12/6/86	
86350047	SW-20	12/6/86	SW/SD-20
86350051	SD-20	12/6/86	
86350048	SW-21	12/6/86	SW/SD-21
86350052	SD-21	12/6/86	
86350053	SW-22	12/6/86	SW/SD-4
86350056	SD-22	12/6/86	Duplicate
86350054	SW-23	12/6/86	SW/SD-1
86350057	SD-23	12/6/86	Duplicate
86350055	SW-24	12/6/86	Field Blank
86350002	SW-30	Sage Plant (12/5/86)	SW/SD-1
86350005	SD-30	12/5/86	
86350003	SW-31	Sage Plant (12/5/86)	SW/SD-2
86350006	SD-31	12/5/86	
86350004	SW-32	Sage Plant (12/5/86)	SW/SD-3
86350007	SD-32	12/5/86	

TABLE H-3-E

SOIL SAMPLES - TRANSFORMER STORAGE AREA

Laboratory ID Number	Field ID Number	Date Sampled	Sampling Point ID
86350008	TS-1	12/5/86	1
86350009	TS-2	12/5/86	2
86350010	TS-3	12/5/86	3
86350011	TS-4	12/5/86	4
86350012	TS-5	12/5/86	5
86350059	TS-6	12/5/86	6
86350060	TS-7	12/5/86	6 Duplicate

TABLE H-3-F

ENTOMOLOGY STORAGE TANK AND SOIL SAMPLES

Laboratory ID Number	Field ID Number	Date Sampled	Sampling Point ID
86350001	EW-1	12/5/86	Tank
86350061	ES-1	12/5/86	1-.66'BLS
86350062	ES-2	12/5/86	2-1.5'BLS
86350063	ES-3	12/5/86	3-3.0'BLS

TABLE H-3-G

ZONE 1 GROUNDWATER SAMPLES

Laboratory ID Number	Field ID Number	Date Sampled	Sampling Point ID
86353016	GW-11	12/16/86	MW-11*
86353017	GW-12	12/16/86	MW-11D*
86353018	GW-13	12/16/86	MW-12*
86353019	GW-14	12/16/86	MW-12D*
86353020	GW-15	12/16/86	MW-13*
86353021	GW-16	12/16/86	MW-13D*
87016016	GW-17	1/14/87	MW-12
87016017	GW-18	1/14/87	MW-12D
87016018	GW-19	1/14/87	Field Blank
87016019	GW-20	1/14/87	Bailer Wash
87016020	GW-21	1/14/87	MW-11
87016021	GW-22	1/14/87	MW-11D
87016022	GW-23	1/14/87	MW-13
87016023	GW-24	1/14/87	MW-13D

* Rapid Turnaround

TABLE H-3-H

ZONE 2 GROUND WATER SAMPLES

Laboratory ID Number	Field ID Number	Date Sampled	Sampling Point ID
87020007	GW-25	1/15/87	MW-15
87020008	GW-26	1/15/87	MW-15D
87020009	GW-28	1/15/87	MW-3D
87020010	GW-29	1/16/87	MW-14
87020011	GW-30	1/16/87	MW-14D
87020012	GW-31	1/16/87	MW-6D
87020013	GW-32	1/16/87	MW-6D Duplicate

Table H-3-I

Sample Identification Cross Reference
Site D-5*

Laboratory ID No.	Field ID No.	Sampling Point Description	Page Number	
			Basic Analysis	Second Column Confirmation
87293001	GW-33	Monitoring Well 10	H-331	H-339
87293002	GW-34	Monitoring Well 16	H-331	H-339
87293003	GW-35	Monitoring Well 16 Duplicate	H-331	H-339
87293004	GW-36	Monitoring Well 17	H-335	H-340
87293005	GW-37	Monitoring Well 18	H-335	H-340
---	---	Quality Control Report	H-342	--

Note: See page H-347 for holding times summary.

*Resampled for purgeables in September 1988. See pages H-350, H-353, H-360 and H-361.

TABLE H-3-J. SAMPLE IDENTIFICATION CROSS REFERENCE
SITE D-5
THALLIUM RESAMPLING, JANUARY 1989

Laboratory ID No.	Field ID No.	Sampling Point Description	Page Number
33405	GW-1	Field Blank	H-347
33406	GW-2	Monitoring Well 16	H-347
33407	GW-3	Monitoring Well 17	H-347
33408	GW-4	Monitoring Well 18	H-347

Note: Samples were collected on 1/4/89 and analyzed on 1/9/89; well within the 6-month holding time.

CORRECTING WET WEIGHT TO DRY WEIGHT

To correct the wet weight sample result to dry weight, the result must be divided by the percent solids (expressed in decimal form).

FOR EXAMPLE:

A sample is 65% solids.

$$\frac{15 \text{ mg/kg as received}}{0.65 \text{ (Solids)}} = 23 \text{ mg/kg dry weight}$$

SAMPLE TRACKING OF
ANALYSES REQUIRING HOLDING TIMES

Lab Number	Field Number	Sample Date	Cd, Cr, Pb, Mn (6 mos.)		Ortho Phosphate 48 hours		Purgeable Halocarbons E601 14 days		Aromatic Volatile Organics E602 14 days		Volatile Organics SW-8240 14 days			
			Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
86353004	GW-1	12/12/86	6/13/87	2/4	12/15/86	2/4*								
86353005	GW-2	12/13/86	6/13/87	2/4	12/15/86	2/4*								
86353006	GW-8	12/15/86	6/15/87	2/4	12/17/86	2/4*								
86353007	GW-9	12/15/86	6/15/87	2/4	12/17/86	2/4*								
86353008	GW-10	12/15/86	6/15/87	2/4	12/17/86	2/4*								
86353009	GW-3	12/13/86	6/13/87	2/4	12/15/86	2/4*								
86353010	GW-4	12/13/86	6/13/87	2/4	12/15/86	2/4*								
86353011	GW-5	12/13/86	6/13/87	2/4	12/15/86	2/4*								
86353012	GW-6	12/13/86	6/13/87	2/4	12/15/86	2/4*								
86353013	GW-7	12/13/86	6/13/87	2/4	12/15/86	2/4*								
86353014	SW-17	12/15/86	6/15/87	2/4			1/14	12/23	1/14	1/20*	---	---		
86353015	SD-17	12/15/86	6/15/87	2/4			---	---	---	---	1/14	12/22		

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
( ): Holding time.
2nd CC: Second Column Confirmation

*Holding Time Exceeded; resampled in Sept. 1987; see Pages H-306 and H-307 for further details

SAMPLE TRACKING OF
ANALYSES REQUIRING HOLDING TIMES

Lab Number	Field Number	Sample Date	Purgeable Halocarbons - Meth E601 (14 days)		Purgeable Halocarbons - Meth E601 (14 days) 2nd CC		Aromatic Volatile Organics Meth 602 (14 days)		Aromatic Volatile Organics Meth 602 (14 days) 2nd CC		Lead - Meth E239.2 (6 mos.)			
			Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
86353016	GW-11	12/16/86	12/30	12/22	12/30	12/23	12/30	12/22	12/30	12/23	---	---		
86353017	GW-12	12/16/86	12/30	12/22	12/30	12/23	12/30	12/22	12/30	12/23	---	---		
86353018	GW-13	12/16/86	12/30	12/22	12/30	12/23	12/30	12/22	12/30	12/23	---	---		
86353019	GW-14	12/16/86	12/30	12/22	12/30	12/23	12/30	12/22	12/30	12/23	---	---		
86353020	GW-15	12/16/86	12/30	12/22	12/30	12/23	12/30	12/22	12/30	12/23	---	---		
86353021	GW-16	12/16/86	12/30	12/22	12/30	12/23	12/30	12/22	12/30	12/23	---	---		
87016016	GW-17	1/14/87	1/28	1/20	1/28	1/24	1/28	1/20	1/28	1/24	7/14	3/11		
87016017	GW-18	1/14/87	1/28	1/20	1/28	1/24	1/28	1/20	1/28	1/24	7/14	3/11		
87016018	GW-19	1/14/87	1/28	1/20	1/28	1/24	1/28	1/20	1/28	1/24	7/14	3/11		
87016019	GW-20	1/14/87	1/28	1/20	1/28	1/24	1/28	1/20	1/28	1/24	7/14	3/11		
87016020	GW-21	1/14/87	1/28	1/20	1/28	1/24	1/28	1/20	1/28	1/24	7/14	3/11		
87016021	GW-22	1/14/87	1/28	1/21	1/28	1/26	1/28	1/21	1/28	1/26	7/14	3/11		
87016022	GW-23	1/14/87	1/28	1/21	1/28	1/26	1/28	1/21	1/28	1/26	7/14	3/11		
87016023	GW-24	1/14/87	1/28	1/21	1/28	1/26	1/28	1/21	1/28	1/26	7/14	3/11		

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
( ): Holding time.
2nd CC: Second Column Confirmation

SAMPLE TRACKING OF
ANALYSES REQUIRING HOLDING TIMES

Lab Number	Field Number	Sample Date	Purgeable Halocarbons Meth E601 (14 days)		Purgeable Halocarbons Meth E601 (14 days) 2nd CC		Aromatic Volatile Organics Meth 602 (14 days)		Aromatic Volatile Organics Meth 602 (14 days) 2nd CC		ICAP Scan As Se (6 mos)		Common Anions Meth A429 (28 days)		Alkalinity-Meth-A403 (14 days)		ICAP Scan Hg. 28 days		Ortho-Phosphate (48 hours)	
			Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
87020007	GW-25	1/15/87	1/29	1/21	1/29	1/26	1/29	1/21	1/29	1/26	7/22	3/26	2/12	3/25	1/29	1/30	2/12	3/26*	1/17	3/25*
87020008	GW-26	1/15/87	1/29	1/21	1/29	1/26	1/29	1/21	1/29	1/26	7/15-7/22	3/26	2/12	3/25	1/29	1/30	2/12	3/26*	1/17	3/25*
87020009	GW-28	1/15/87	1/29	1/21	1/29	1/26	1/29	1/21	1/29	1/26	7/15	3/26	2/12	3/25	1/29	1/30	2/12	3/26*	1/17	3/25*
87020010	GW-29	1/16/87	1/30	1/21	1/30	1/28	1/30	1/21	1/30	1/28	7/16	3/26	2/13	3/25	1/30	1/30	2/13	3/26*	1/18	3/25*
87020011	GW-30	1/16/87	1/30	1/22	1/30	1/28	1/30	1/22	1/30	1/28	7/16	3/26	2/13	3/25	1/30	1/30	2/13	3/26*	1/18	3/25*
87020012	GW-31	1/16/87	1/30	1/22	1/30	1/28	1/30	1/22	1/30	1/28	7/16	3/26	2/13	3/25	1/30	1/30	2/13	3/26*	1/18	3/25*
87020013	GW-32	1/16/87	1/30	1/22	1/30	1/28	1/30	1/22	1/30	1/28	7/16	3/26	2/13	3/25	1/30	1/30	2/13	3/27*	1/18	3/25*
87293001	GW-33	10/19/87	**																	
82793002	GW-34	10/19/87	**																	
82793003	GW-35	10/19/87	**																	
82793004	GW-36	10/19/87	**																	
82793005	GW-37	10/19/87	**																	

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
(*): Holding time.
2nd CC: Second Column Confirmation

*Holding Time Exceeded; resampled in Sept. 1987; see page H-307 for new results.
**Holding Times found on page H-346.

SAMPLE TRACKING OF
ANALYSES REQUIRING HOLDING TIMES

Lab Number	Field Number	Sample Date	Purgeable Halocarbons - Meth-E601 (14 days)		Purgeable Halocarbons - Meth-E601 2nd CC		Aromatic Volatile Organics - Meth-E602 (14 days)		Aromatic Volatile Organics- Meth-E602 2nd CC		Priority Pollutant Metals - Meth E200.7 (6 mos.)		Petroleum Hydrocarbons Meth-E418.1 (28 days)		ICAP Scan Hg. (28 days)	
			Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
86350013	SW-1	12/6/86	12/20	12/17	12/20	---	12/20	12/17	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29*
86350014	SW-2	12/6/86	12/20	12/17	12/20	12/20	12/20	12/17	12/20	12/20	6/6	1/29	1/3	12/31	1/13	1/29*
86350015	SW-3	12/6/86	12/20	12/17	12/20	12/20	12/20	12/17	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29*
86350016	SW-4	12/6/86	12/20	12/17	12/20	12/20	12/20	12/17	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29**
86350021	SW-5	12/6/86	12/20	12/17	12/20	12/20	12/20	12/17	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29**
86350022	SW-6	12/6/86	12/20	12/17	12/20	12/20	12/20	12/17	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29**
86350023	SW-7	12/6/86	12/20	12/17	12/20	12/20	12/20	12/17	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29**
86350024	SW-8	12/6/86	12/20	12/17	12/20	12/20	12/20	12/17	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29*
86350029	SW-9	12/6/86	12/20	12/18	12/20	12/20	12/20	12/18	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29*
86350030	SW-10	12/6/86	12/20	12/18	12/20	12/20	12/20	12/18	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29*
86350031	SW-11	12/6/86	12/20	12/18	12/20	12/20	12/20	12/18	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29*
86350032	SW-12	12/6/86	12/20	12/18	12/20	12/20	12/20	12/18	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29*
86350037	SW-13	12/6/86	12/20	12/18	12/20	12/20	12/20	12/18	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29*
86350038	SW-14	12/6/86	12/20	12/18	12/20	12/20	12/20	12/18	12/20	12/20	6/6	1/29	1/3	12/31	1/3	1/29**
86350039	SW-15	12/6/86	12/20	12/18	12/20	12/22*	12/20	12/18	12/20	12/22	6/6	1/29	1/3	12/31	1/3	1/29*

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
( ): Holding time.
2nd CC: Second Column Confirmation

*Holding Time Exceeded but could not be resampled during Sept. 1987 because of dry conditions
**Holding Time Exceeded and resampled in Sept. 1987 for mercury; see page H-305 for new results.

SAMPLE TRACKING OF
ANALYSES REQUIRING HOLDING TIMES

Lab Number	Field Number	Sample Date	Purgeable Halocarbons Meth E601 (14 days)		Purgeable Halocarbons Meth E601 2nd CC		Aromatic Volatile Organics Meth E602 (14 days)		Aromatic Volatile Organics Meth E602 2nd CC		Priority Pollutant Metals Meth E200.7 (6 mos.)		Petroleum Hydrocarbons Meth E418.1 (28 days)		lead Meth E239.2 (6 mos.)		ICAP Scan for Mercury (28 days)	
			Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
86350040	SW-16	12/6/86	12/20	12/18	12/20	12/22*	12/20	12/18	12/20	12/22*	6/6	1/29	1/3	12/31	---	---	1/3	1/29+
86350045	SW-18	12/6/86	12/20	12/19	12/20	12/22*	12/20	12/19	12/20	12/22*	6/6	1/29	1/3	12/31	---	---	1/3	1/29*
86350046	SW-19	12/6/86	12/20	12/19	12/20	12/22*	12/20	12/19	12/20	12/22*	6/6	1/29	1/3	12/31	---	---	1/3	1/29*
86350047	SW-20	12/6/86	12/20	12/19	12/20	12/22*	12/20	12/19	12/20	12/22*	6/6	1/29	1/3	12/31	---	---	1/3	1/29*
86350048	SW-21	12/6/86	12/20	12/19	12/20	12/22*	12/20	12/19	12/20	12/22*	6/6	1/29	1/3	12/31	---	---	1/3	1/29*
86350053	SW-22	12/6/86	12/20	12/19	12/20	12/22*	12/20	12/19	12/20	12/22*	6/6	1/29	1/3	12/31	---	---	1/3	1/29+
86350054	SW-23	12/6/86	12/20	12/19	12/20	12/22*	12/20	12/19	12/20	12/22*	6/6	1/29	1/3	12/31	---	---	1/3	1/29*
86350055	SW-24	12/6/86	12/20	12/19	12/20	12/22*	12/20	12/19	12/20	12/22*	6/6	1/29	1/3	12/31	---	---	1/3	1/29+
86350002	SW-30	12/5/86	12/19	12/17	12/19	---	12/19	12/17	12/19	---	---	---	1/2	12/31	6/5	3/12		
86350003	SW-31	12/5/86	12/19	12/17	12/19	12/20*	12/19	12/17	12/19	12/20*	---	---	1/2	12/31	6/5	3/12		**
86350004	SW-32	12/5/86	12/19	12/17	12/19	12/20*	12/29	12/17	12/19	12/20*	---	---	1/2	12/31	6/5	3/12		**

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
( ): Holding time.
2nd CC: Second Column Confirmation

* Holding Time Exceeded and resampled in Sept. 1987; see page H-296 for new results
\+ Holding Time Exceeded but could not be resampled during Sept. 1987 because of dry conditions

** During resampling; analyzed for mercury also.

SAMPLE TRACKING OF
ANALYSES REQUIRING HOLDING TIMES

Lab Number	Field Number	Sample Date	Semivolatile Organics - SW3550/SW8270 (14/E & 40)		Priority Pollutant Metals - Meth. E200.7 (6 mos)		Petroleum Hydrocarbons - Meth. SW 3550/E418.1		Volatile Organics Meth. - 8240 (14 days)		Mercury - Meth. SW 7471 (28 days)			
			Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
86350017	SD-1	12/6/86	1/29	1/19	6/6	1/30	N/A	1/22	12/20	12/18	1/3	1/30*		
86350018	SD-2	12/6/86	1/29	1/19	6/6	1/30	N/A	1/22	12/20	12/18	1/3	1/30*		
86350019	SD-3	12/6/86	1/29	1/19	6/6	1/30	N/A	1/22	12/20	12/18	1/3	1/30*		
86350020	SD-4	12/6/86	1/29	1/19	6/6	1/30	N/A	1/22	12/20	12/18	1/3	1/30**		
86350025	SD-5	12/6/86	1/29	1/19	6/6	1/30	N/A	1/22	12/20	12/18	1/3	1/30**		
86350026	SD-6	12/6/86	1/29	1/19	6/6	1/30	N/A	1/22	12/20	12/18	1/3	1/30**		
86350027	SD-7	12/6/86	1/29	1/19	6/6	1/30	N/A	1/22	12/20	12/18	1/3	1/30**		
86350028	SD-8	12/6/86	1/29	1/19	6/6	1/30	N/A	1/22	12/20	12/18	1/3	1/30*		
86350033	SD-9	12/6/86	1/29	1/20	6/6	1/30	N/A	1/22	12/20	12/19	1/3	1/30*		
86350034	SD-10	12/6/86	1/29	1/20	6/6	1/30	N/A	1/22	12/20	12/19	1/3	1/30*		
86350035	SD-11	12/6/86	1/29	1/20	6/6	1/30	N/A	1/22	12/20	12/19	1/3	1/30*		
86350036	SD-12	12/6/86	1/29	1/20	6/6	1/30	N/A	1/22	12/20	12/19	1/3	1/30*		
86350041	SD-13	12/6/86	1/29	1/20	6/6	1/30	N/A	1/22	12/20	12/19	1/3	1/30*		
86350042	SD-14	12/6/86	1/29	1/20	6/6	1/30	N/A	1/22	12/20	12/19	1/3	1/30**		
86350043	SD-15	12/6/86	1/29	1/20	6/6	1/30	N/A	1/22	12/20	12/19	1/3	1/30*		

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
( ): Holding time.
2nd CC: Second Column Confirmation

* Holding Time Exceeded but could not be resampled during Sept. 1987 because of dry conditions

** Holding Time Exceeded and resampled in Sept. 1987; see page H-305 for new results

SAMPLE TRACKING OF
ANALYSES REQUIRING HOLDING TIMES

Lab Number	Field Number	Sample Date	Semivolatile Organics-Meth SW3550/SW8270 (14/E-40)		Priority Pollutant Metals - Meth - E200.7 (6 mos.)		Petroleum Hydrocarbons Meth-SW3550/ E418.1		Volatile Organics Meth-SW5030/ SW8240 (14 days)		Lead - Meth-E239.2 (6 mos.)		Mercury Meth-SW 7471 (28 days)	
			Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
86350044	SD-16	12/6/86	1/29	12/20	6/6	1/30	NA	1/22	12/20	12/19	---	---	1/3	1/30*
86350049	SD-18	12/6/86	1/29	12/20	6/6	1/30	NA	1/22	12/20	12/19	---	---	1/3	1/30**
86350050	SD-19	12/6/86	1/29	12/20	6/6	1/30	NA	1/22	12/20	12/19	---	---	1/3	1/30*
86350051	SD-20	12/6/86	1/29	12/20	6/6	1/30	NA	1/22	12/20	12/19	---	---	1/3	1/30**
86350052	SD-21	12/6/86	1/29	12/20	6/6	1/30	NA	1/22	12/20	12/19	---	---	1/3	1/30**
86350056	SD-22	12/6/86	1/29	---	6/6	1/30	NA	1/22	12/20	12/19	---	---	1/3	1/30*
86350057	SD-23	12/6/86	1/29	---	6/6	1/30	NA	1/22	12/20	12/19	---	---	1/3	1/30*
86350005	SD-30	12/5/86	1/28	---	---	---	NA	1/22	12/20	12/19	6/5	2/11		
86350006	SD-31	12/5/86	1/28	---	---	---	NA	1/22	12/20	12/19	6/5	2/11		
86350007	SD-32	12/5/86	1/28	---	---	---	NA	1/22	12/20	12/19	6/5	2/11		

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
( ): Holding time.
2nd CC: Second Column Confirmation

* Holding Time Exceeded but could not be resampled during Sept. 1987 because of dry conditions.
** Holding Time Exceeded and resampled during Sept. 1987; see Page H-305 for new results.

SAMPLE TRACKING OF ANALYSES REQUIRING HOLDING TIMES

Lab Number	Field Number	Sample Date	Volatile Organics - Meth. - SW5030/SW8240 (14 days)		Petroleum Hydrocarbons - Meth. - SW3550/E418.1		Lead Meth. - E239.2 (6 mos.)		Semivolatile Organics - Meth. - SW3550/ SW8270 (14/E&40)					
			Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
86329006	FS-A-1	11/18/86	12/2	11/27	N/A	1/20	5/18	12/29	---	---				
86329007	FS-A-2	11/18/86	12/2	11/27	N/A	1/20	5/18	12/29	---	---				
86329008	FS-A-3	11/19/86	12/2	11/27	N/A	1/20	5/18	12/29	---	---				
86329009	FS-A-4	11/19/86	12/2	11/27	N/A	1/20	5/18	12/29	---	---				
86329010	FS-B-1	11/18/86	12/2	11/27	N/A	1/20	5/18	12/29	1/11	1/16*				
86329011	FS-B-2	11/18/86	12/2	11/27	N/A	1/20	5/18	12/29	---	---				
86329012	FS-B-3	11/18/86	12/2	11/27	N/A	1/20	5/18	12/29	---	---				
86329013	FS-C-1	11/18/86	12/2	11/27	N/A	1/20	5/18	12/29	1/11	1/16*				
86329014	FS-C-2	11/18/86	12/2	11/27	N/A	1/21	5/18	12/29	1/11	1/16*				
86329015	FS-C-3	11/18/86	12/2	11/27	N/A	1/21	5/18	12/29	---	---				
86329016	FS-D-1	11/18/86	12/2	11/27	N/A	1/21	5/18	12/29	1/11	1/16*				
86329017	FS-D-2	11/18/86	12/2	11/27	N/A	1/21	5/18	12/29	1/11	1/16*				
86329018	FS-D-3	11/18/86	12/2	11/27	N/A	1/21	5/18	12/29	---	---				
86329019	FS-E-1	11/18/86	12/2	11/27	N/A	1/21	5/18	12/29	1/11	1/16*				
86329020	FS-E-2	11/18/86	12/2	11/27	N/A	1/21	5/18	12/29	1/11	1/16*				

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
( ): Holding time.
2nd CC: Second Column Confirmation

*Holding Time Exceeded; resampled in Sept. 1987; see Pages H-298 - H-301 for further details.

SAMPLE TRACKING OF
ANALYSES REQUIRING HOLDING TIMES

Lab Number	Field Number	Sample Date	Volatile Organics-Meth SW5030/SW8240 (14 days)		Petroleum Hydrocarbons Meth-SW3550/ E418.1		Lead Meth-E239.2 6 mos.		Semivolatile Organics-Meth SW3550/SW8270 (14/E-40)					
			Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
86329021	FS-E-3	11/19/86	12/2	11/28	NA	1/21	5/16	12/29	---	---				
86329022	FS-F-1	11/19/86	12/2	11/28	NA	1/21	5/16	12/29	1/11	1/16*				
86329023	FS-F-2	11/19/86	12/2	11/28	NA	1/21	5/16	12/29	1/11	1/16*				
86329024	FS-F-3	11/19/86	12/2	11/28	NA	1/21	5/16	12/29	---	---				
86329026	FS-G-1	11/19/86	12/3	11/28	NA	1/21	5/17	12/29	1/12	1/17*				
86329028	FS-G-2	11/19/86	12/3	11/28	NA	1/21	5/17	12/29	---	---				
86329029	FS-G-3	11/19/86	12/3	11/28	NA	1/21	5/17	12/29	---	---				
86329030	FS-H-1	11/19/86	12/3	11/28	NA	1/21	5/17	12/29	---	---				
86329031	FS-H-2	11/19/86	12/3	11/28	NA	1/21	5/17	12/29	---	---				
86329032	FS-H-3	11/19/86	12/3	11/28	NA	1/21	5/17	12/29	---	---				
86329033	FS-H-4	11/19/86	12/3	11/28	NA	1/21	5/17	12/29	---	---				
86329034	FS-I-1	11/19/86	12/3	11/28	NA	1/21	5/17	12/29	---	---				

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
( ): Holding time.
2nd CC: Second Column Confirmation

*Holding Time Exceeded; resampled in Sept. 1987; see Pages H-300 - H-303 for further details.

SAMPLE TRACKING OF
ANALYSES REQUIRING HOLDING TIMES

			OCPest/OP Pest/Herb (>/E&40)-OCPest (>/S&14)-OPPest (>/E&30)-Herb		OCPest/OP Pest/Herb (>/E&40)-OCPest (>/S&14)-OPPest (>/E&30)-Herb 2nd CC									
Lab Number	Field Number	Sample Date	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
86350061	ES-1	12/5/86	1/4 OC 12/19 OP 1/4 H	1/23	1/4 OC 12/19 OP 1/4 H	1/23								
86350062	ES-2	12/5/86	1/4 OC 12/19 OP 1/4 H	1/23	1/4 OC 12/19 OP 1/4 H	1/23								
86350063	ES-3	12/5/86	1/4 OC 12/19 OP 1/4 H	1/23	1/4 OC 12/19 OP 1/4 H	1/23								
86350001	EW-1	12/5/86	1/4 OC 12/19 OP 1/4 H	1/23*	1/4 OC 12/19 OP 1/4 H	1/23*								

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
( ): Holding time.
2nd CC: Second Column Confirmation

* Holding Time Exceeded; resampled in Sept. 1987; see Page H-304 for further details.

SAMPLE TRACKING OF
ANALYSES REQUIRING HOLDING TIMES

Lab Number	Field Number	Sample Date	Petroleum Hydrocarbons Meth-SW3550/ E418.1 Dead	Anal	PCBs Meth-SW3550/ SW8080 30 days Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal	Dead	Anal
86350008	TS-1	12/5/86	NA	1/22	1/4	1/22								
86350009	TS-2	12/5/86	NA	1/22	1/4	1/22								
86350010	TS-3	12/5/86	NA	1/22	1/4	1/22								
86350011	TS-4	12/5/86	NA	1/22	1/4	1/22								
86350012	TS-5	12/5/86	NA	1/22	1/4	1/22								
86350059	TS-6	12/5/86	NA	1/22	1/4	1/22								
86350060	TS-7	12/5/86	NA	1/22	1/4	1/22								

DEAD: Date sample holding time expires.
ANAL: Date sample was analyzed.
( ): Holding time.
2nd CC: Second Column Confirmation

HANCOCK AFB - SAMPLE EXTRACTION AND ANALYSIS DATES

SHIPMENT #1
PRIORITY POLLUTANTS BY 8270

CLIENT ID	LAB ID	DATE COLLECTED	DATE EXTRACT. STARTED	DATE EXTRACT. COMPLETED	DATE ANALYSIS STARTED
*FS-B-1	86329 010	11/18/86	12/2/86	12/7/86	1/16/87
*FS-C-1	86329 013	11/18/86	12/2/86	12/7/86	1/16/87
*FS-C-2	86329 014	11/18/86	12/2/86	12/7/86	1/16/87
*FS-D-1	86329 016	11/18/86	12/2/86	12/7/86	1/16/87
*FS-D-2	86329 017	11/18/86	12/2/86	12/7/86	1/16/87
*FS-E-1	86329 019	11/18/86	12/2/86	12/7/86	1/16/87
*FS-E-2	86329 020	11/18/86	12/2/86	12/7/86	1/16/87
*FS-F-1	86329 022	11/19/86	12/2/86	12/7/86	1/16/87
*FS-F-2	86329 023	11/19/86	12/2/86	12/7/86	1/16/87
*FS-G-1	86329 025	11/19/86	12/2/86	12/7/86	1/19/87

SHIPMENT #2
PRIORITY POLLUTANTS BY 8270

CLIENT ID	LAB ID	DATE COLLECTED	DATE EXTRACT. STARTED	DATE EXTRACT. COMPLETED	DATE ANALYSIS STARTED
SD-1	86350 017	12/6/86	12/13/86	12/19/86	1/19/87
SD-2	86350 018	12/6/86	12/13/86	12/19/86	1/19/87
SD-3	86350 019	12/6/86	12/13/86	12/19/86	1/19/87
SD-4	86350 020	12/6/86	12/13/86	12/19/86	1/19/87
SD-5	86350 025	12/6/86	12/13/86	12/19/86	1/19/87
SD-6	86350 026	12/6/86	12/13/86	12/19/86	1/19/87
SD-7	86350 027	12/6/86	12/13/86	12/19/86	1/19/87
SD-8	86350 028	12/6/86	12/13/86	12/19/86	1/19/87
SD-9	86350 033	12/6/86	12/13/86	12/19/86	1/20/87
SD-10	86350 034	12/6/86	12/13/86	12/19/86	1/20/87
SD-11	86350 035	12/6/86	12/13/86	12/19/86	1/20/87
SD-12	86350 036	12/6/86	12/13/86	12/19/86	1/20/87
SD-13	86350 041	12/6/86	12/15/86	12/22/86	1/20/87
SD-14	86350 042	12/6/86	12/15/86	12/22/86	1/20/87
SD-15	86350 043	12/6/86	12/15/86	12/22/86	1/20/87
SD-16	86350 044	12/6/86	12/15/86	12/22/86	1/20/87
SD-18	86350 049	12/6/86	12/15/86	12/22/86	1/20/87
SD-19	86350 050	12/6/86	12/15/86	12/22/86	1/20/87
SD-20	86350 051	12/6/86	12/15/86	12/22/86	1/20/87
SD-21	86350 052	12/6/86	12/15/86	12/22/86	1/20/87

*Holding times exceeded, locations resampled 9/87.
See page H-294 for extraction and analysis dates.

SHIPMENT #2
PRIORITY POLLUTANTS BY 625

CLIENT ID	LAB ID	DATE COLLECTED	DATE EXTRACT. STARTED	DATE EXTRACT. COMPLETED	DATE ANALYSIS STARTED
SW-1	86350 013	12/6/86	12/10/86	12/13/86	1/12/87
SW-2	86350 014	12/6/86	12/10/86	12/13/86	1/12/87
SW-3	86350 015	12/6/86	12/10/86	12/13/86	1/12/87
SW-4	86350 016	12/6/86	12/10/86	12/13/86	1/12/87
SW-5	86350 021	12/6/86	12/10/86	12/13/86	1/12/87
SW-6	86350 022	12/6/86	12/10/86	12/13/86	1/12/87
SW-7	86350 023	12/6/86	12/10/86	12/13/86	1/12/87
SW-8	86350 024	12/6/86	12/10/86	12/13/86	1/12/87
SW-9	86350 029	12/6/86	12/10/86	12/13/86	1/12/87
SW-10	86350 030	12/6/86	12/10/86	12/13/86	1/12/87
SW-11	86350 031	12/6/86	12/10/86	12/13/86	1/12/87
SW-12	86350 032	12/6/86	12/10/86	12/13/86	1/12/87
SW-13	86350 037	12/6/86	12/12/86	12/15/86	1/12/87
SW-14	86350 038	12/6/86	12/12/86	12/15/86	1/13/87
SW-15	86350 039	12/6/86	12/12/86	12/15/86	1/13/87
SW-16	86350 040	12/6/86	12/12/86	12/15/86	1/13/87
SW-18	86350 045	12/6/86	12/12/86	12/15/86	1/13/87
SW-19	86350 046	12/6/86	12/12/86	12/15/86	1/13/87
SW-20	86350 047	12/6/86	12/12/86	12/15/86	1/13/87
SW-21	86350 048	12/6/86	12/12/86	12/15/86	1/13/87
SW-22	86350 053	12/6/86	12/12/86	12/15/86	1/13/87
SW-23	86350 054	12/6/86	12/12/86	12/15/86	1/13/87
SW-24	86350 055	12/6/86	12/12/86	12/15/86	1/13/87

SHIPMENT #6
PRIORITY POLLUTANTS BY 625

CLIENT ID	LAB ID	DATE COLLECTED	DATE EXTRACT. STARTED	DATE EXTRACT. COMPLETED	DATE ANALYSIS STARTED
GW-25	87020 007	1/15/87	1/19/87	1/22/87	1/28/87
GW-26	87020 008	1/15/87	1/19/87	1/22/87	1/28/87
GW-28	87020 009	1/15/87	1/19/87	1/22/87	1/28/87
GW-29	87020 010	1/16/87	1/19/87	1/22/87	1/28/87
GW-30	87020 011	1/16/87	1/19/87	1/22/87	1/28/87
GW-31	87020 012	1/16/87	1/19/87	1/22/87	1/28/87
GW-32	87020 013	1/16/87	1/19/87	1/22/87	1/28/87

All non-aqueous VOA extractions were performed on the sample day as the analysis.

SHIPMENT #2
ORGANOCHLORINE PESTICIDES AND PCBs - METHOD 608
ORGANOPHOSPHORUS PESTICIDES - METHOD 8140

CLIENT ID	LAB ID	DATE COLLECTED	DATE EXTRACT. STARTED	DATE EXTRACT. COMPLETED	DATE ANALYSIS STARTED
EW-1 *	86350 001	12/5/86	12/12/86	12/20/86	1/23/87
ES-1	86350 061	12/5/86	12/12/86	12/20/86	1/23/87
ES-2	86350 062	12/5/86	12/12/86	12/20/86	1/23/87
ES-3	86350 063	12/5/86	12/12/86	12/20/86	1/23/87

SHIPMENT #2
HERBICIDES - METHOD 8150

CLIENT ID	LAB ID	DATE COLLECTED	DATE EXTRACT. STARTED	DATE EXTRACT. COMPLETED	DATE ANALYSIS STARTED
EW-1	86350 001	12/5/86	12/12/86	12/20/86	1/23/87
ES-1	86350 061	12/5/86	12/12/86	12/20/86	1/23/87
ES-2	86350 062	12/5/86	12/12/86	12/20/86	1/23/87
ES-3	86350 063	12/5/86	12/12/86	12/20/86	1/23/87

SHIPMENT #2
PCBs - METHOD 8080

CLIENT ID	LAB ID	DATE COLLECTED	DATE EXTRACT. STARTED	DATE EXTRACT. COMPLETED	DATE ANALYSIS STARTED
TS-1	86350 008	12/5/86	12/11/86	12/19/86	1/22/87
TS-2	86350 009	12/5/86	12/11/86	12/19/86	1/22/87
TS-3	86350 010	12/5/86	12/11/86	12/19/86	1/22/87
TS-4	86350 011	12/5/86	12/11/86	12/19/86	1/22/87
TS-5	86350 012	12/5/86	12/11/86	12/19/86	1/22/87
TS-6	86350 059	12/5/86	12/11/86	12/19/86	1/22/87
TS-7	86350 060	12/5/86	12/11/86	12/19/86	1/22/87

*Holding time exceeded; underground tank resampled 9/87.
See page H-295 for extraction and analysis dates.

TMA ERG
Thermo Analytical Inc.

Analytical Report

Project: A4837
Report Date: 10-10-86

117 N. FIRST
ANN ARBOR, MICHIGAN 48104 (313) 662-3104

RECEIVED OCT 1 3 19

Client P.O.
Report: 21901

Samples Recvd: 09-26-86
Refer Questions To:
ROBYN WOOLEY

Client:
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
8400 WESTPARK DRIVE
MC LEAN, VA 22102
Attention: PHIL SPOONER

Approved:

***
Residual Samples Will Be Held
TWO WEEKS
***

GW-8

Client I.D.: 01
ERG Sample No.: 09/160440
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
ACID FRACTION (PRIOR. POLLS. METH 625)		
CHLOROPHENOL, 2-	ND (10)	ug/L
NITROPHENOL, 2-	ND (10)	ug/L
PHENOL	ND (10)	ug/L
DIMETHYLPHENOL, 2,4-	ND (10)	ug/L
DICHLOROPHENOL, 2,4-	ND (10)	ug/L
TRICHLOROPHENOL, 2,4,6-	ND (10)	ug/L
CHLORO-3-METHYLPHENOL, 4-	ND (10)	ug/L
DINITROPHENOL, 2,4-	ND (50)	ug/L
METHYL-4,6-DINITROPHENOL, 2-	ND (50)	ug/L
PENTACHLOROPHENOL	ND (50)	ug/L
NITROPHENOL, 4-	ND (50)	ug/L
BICARBONATE ALKALINITY	290	mg/L
CARBONATE ALKALINITY	<1	mg/L
ALKALINITY, TOTAL	290	mg/L
AVERAGE OF DUPLICATE RUNS		
ALUMINUM, TOTAL	12	mg/L
ANTIMONY	ND (0.01)	mg/L
ARSENIC, TOTAL	0.010	mg/L
AVERAGE OF DUPLICATE RUNS		
B/N FRACTION (PRIOR. POLLS METH. 625)		
ACENAPTHENE	ND (10)	ug/L
ACENAPTHYLENE	ND (10)	ug/L
ANTHRACENE	ND (10)	ug/L
BENZIDINE	ND (50)	ug/L
BENZO(A)ANTHRACENE	ND (10)	ug/L
BENZO(A)PYRENE	ND (10)	ug/L
BENZO(B)FLUORANTHENE	ND (10)	ug/L
BENZO(K)FLUORANTHENE	ND (10)	ug/L
BENZO(G,H,I)PERYLENE	ND (10)	ug/L
BIS(2-CHLOROETHYL)ETHER	ND (10)	ug/L
BIS(2-CHLORETHOXY)METHANE	ND (10)	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	ND (10)	ug/L

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc. **Analytical Report**

Project: A4837
Report Date: 10-10-86

GW-8

Client I.D.: 01
ERG Sample No.: 09/160440
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
BIS(2-ETHYLHEXYL)PHTHALATE	ND (10)	ug/L
BROMOPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
BUTYL BENZYL PHTHALATE	ND (10)	ug/L
CHLORONAPHTHALENE, 2-	ND (10)	ug/L
CHLOROPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
CHRYSENE	ND (10)	ug/L
DI-N-BUTYLPHTHALATE	ND (10)	ug/L
DIBENZO(A,H)ANTHRACENE	ND (10)	ug/L
DICHLOROBENZENE, 1,2-	ND (10)	ug/L
DICHLOROBENZENE, 1,3-	ND (10)	ug/L
DICHLOROBENZENE, 1,4-	ND (10)	ug/L
DICHLOROBENZIDINE, 3,3'-	ND (20)	ug/L
DIETHYLPHTHALATE	ND (10)	ug/L
DIMETHYLPHTHALATE	ND (10)	ug/L
DINITROTOLUENE 2,4-	ND (10)	ug/L
DINITROTOLUENE 2,6-	ND (10)	ug/L
DIOCTYLPHTHALATE	ND (10)	ug/L
DIPHENYLHYDRAZINE 1,2-	ND (20)	ug/L
FLUORANTHENE	ND (10)	ug/L
FLUORENE	ND (10)	ug/L
HEXACHLOROBENZENE	ND (10)	ug/L
HEXACHLOROBUTADIENE	ND (10)	ug/L
HEXACHLOROCYCLOPENTADIENE	ND (10)	ug/L
HEXACHLOROETHANE	ND (10)	ug/L
INDENO(1,2,3-CD)PYRENE	ND (10)	ug/L
ISOPHORONE	ND (10)	ug/L
N-NITROSODI-N-PROPYLAMINE	ND (10)	ug/L
N-NITROSODIMETHYLAMINE	ND (10)	ug/L
N-NITROSODIPHENYLAMINE	ND (10)	ug/L
NAPHTHALENE	ND (10)	ug/L
NITROBENZENE	ND (10)	ug/L
PHENANTHRENE	ND (10)	ug/L
PYRENE	ND (10)	ug/L
TRICHLOROBENZENE, 1,2,4-	ND (10)	ug/L
BARIUM, TOTAL	0.35	mg/L
BERYLLIUM, TOTAL	ND (0.01)	mg/L
BORON	ND (0.5)	mg/L
CADMIUM, TOTAL	ND (0.1)	mg/L
CALCIUM, TOTAL	120	mg/L
CHLORIDE	400	mg/L
CHROMIUM, TOTAL	ND (0.1)	mg/L
COBALT, TOTAL	ND (0.1)	mg/L
COPPER, TOTAL	ND (0.05)	mg/L
FLOURIDE, TOTAL	0.30	mg/L
IRON, TOTAL	11	mg/L

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc.

Analytical Report

Project: A483/
Report Date: 10-10-86

GW-8

Client I.D.: 01
ERG Sample No.: 09/160440
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
LEAD, TOTAL	ND (0.5)	mg/L
MAGNESIUM, TOTAL	60	mg/L
MANGANESE, TOTAL	0.1	mg/L
MERCURY	ND (0.0002)	mg/L
MOLYBDENUM, TOTAL	ND (1)	mg/L
NICKEL, TOTAL	ND (0.05)	mg/L
AMMONIA NITROGEN	0.50	mg/L
NITRATE NITROGEN	0.02	mg/L
NITRITE NITROGEN	0.02	mg/L
OIL AND GREASE BY IR	<1	mg/L
POTASSIUM, TOTAL	2	mg/L
PURGEABLE AROMATICS		
BENZENE	ND (0.2)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	ND (0.07)	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	ND (0.05)	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L
TRICHLOROETHANE, 1,1,1-	ND (0.03)	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	ND (0.10)	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	0.42	ug/L
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	ND (0.03)	ug/L

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc. **Analytical Report**

Project: A4837
Report Date: 10-10-86

GW-8

Client I.D.: 01
ERG Sample No.: 09/160440
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
SELENIUM, TOTAL	<0.002	mg/L
HIGHER DETECTION LIMIT DUE TO MATRIX INTERFERENCE. AVERAGE OF DUPLICATE RUNS		
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	150	mg/L
SOLIDS, TOTAL, DISSOLVED	1100	mg/L
SUSPENDED SOLIDS	20	mg/L
SULFATE, TURBIDIMETRIC METH.	84	mg/L
THALLIUM	ND (0.5)	mg/L
TITANIUM	0.6	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	0.5	mg/L

GW-9

Client I.D.: 02
ERG Sample No.: 09/160441
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
ACID FRACTION (PRIOR. POLLS. METH 625)		
CHLOROPHENOL, 2-	ND (10)	ug/L
NITROPHENOL, 2-	ND (10)	ug/L
PHENOL	ND (10)	ug/L
DIMETHYLPHENOL, 2,4-	ND (10)	ug/L
DICHLOROPHENOL, 2,4-	ND (10)	ug/L
TRICHLOROPHENOL, 2,4,6-	ND (10)	ug/L
CHLORO-3-METHYLPHENOL, 4-	ND (10)	ug/L
DINITROPHENOL, 2,4-	ND (50)	ug/L
METHYL-4,6-DINITROPHENOL, 2-	ND (50)	ug/L
PENTACHLOROPHENOL	ND (50)	ug/L
NITROPHENOL, 4-	ND (50)	ug/L
BICARBONATE ALKALINITY	330	mg/L
CARBONATE ALKALINITY	<1	mg/L
ALKALINITY, TOTAL	330	mg/L
ALUMINUM, TOTAL	16	mg/L
ANTIMONY	ND (0.01)	mg/L
ARSENIC, TOTAL	0.009	mg/L
B/N FRACTION (PRIOR. POLLS METH. 625)		
ACENAPTHENE	ND (10)	ug/L
ACENAPTHYLENE	ND (10)	ug/L
ANTHRACENE	ND (10)	ug/L
BENZIDINE	ND (50)	ug/L

 See last page for explanation of symbols.

GW-9

Client I.D.: 02
ERG Sample No.: 09/160441
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
BENZO(A)ANTHRACENE	ND (10)	ug/L
BENZO(A)PYRENE	ND (10)	ug/L
BENZO(B)FLUORANTHENE	ND (10)	ug/L
BENZO(K)FLUORANTHENE	ND (10)	ug/L
BENZO(G,H,I)PERYLENE	ND (10)	ug/L
BIS(2-CHLOROETHYL)ETHER	ND (10)	ug/L
BIS(2-CHLORETHOXY)METHANE	ND (10)	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	ND (10)	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	ND (10)	ug/L
BROMOPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
BUTYL BENZYL PHTHALATE	ND (10)	ug/L
CHLORONAPHTHALENE, 2-	ND (10)	ug/L
CHLOROPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
CHRYSENE	ND (10)	ug/L
DI-N-BUTYLPHTHALATE	ND (10)	ug/L
DIBENZO(A,H)ANTHRAÇENE	ND (10)	ug/L
DICHLOROBENZENE, 1,2-	ND (10)	ug/L
DICHLOROBENZENE, 1,3-	ND (10)	ug/L
DICHLOROBENZENE, 1,4-	ND (10)	ug/L
DICHLOROBENZIDINE, 3,3'-	ND (20)	ug/L
DIETHYLPHTHALATE	ND (10)	ug/L
DIMETHYLPHTHALATE	ND (10)	ug/L
DINITROTOLUENE 2,4-	ND (10)	ug/L
DINITROTOLUENE 2,6-	ND (10)	ug/L
DIOCTYLPHTHALATE	ND (10)	ug/L
DIPHENYLHYDRAZINE 1,2-	ND (20)	ug/L
FLUORANTHENE	ND (10)	ug/L
FLUORENE	ND (10)	ug/L
HEXACHLOROBENZENE	ND (10)	ug/L
HEXACHLOROBUTADIENE	ND (10)	ug/L
HEXACHLOROCYCLOPENTADIENE	ND (10)	ug/L
HEXACHLOROETHANE	ND (10)	ug/L
INDENO(1,2,3-CD)PYRENE	ND (10)	ug/L
ISOPHORONE	ND (10)	ug/L
N-NITROSODI-N-PROPYLAMINE	ND (10)	ug/L
N-NITROSODIMETHYLAMINE	ND (10)	ug/L
N-NITROSODIPHENYLAMINE	ND (10)	ug/L
NAPHTHALENE	ND (10)	ug/L
NITROBENZENE	ND (10)	ug/L
PHENANTHRENE	ND (10)	ug/L
PYRENE	ND (10)	ug/L
TRICHLOROBENZENE, 1,2,4-	ND (10)	ug/L
BARIUM, TOTAL	0.24	mg/L
BERYLLIUM, TOTAL	ND (0.01)	mg/L
BORON	ND (0.5)	mg/L

 See last page for explanation of symbols.

Analytical Report

Project: A4837
Report Date: 10-10-86

GW-9

Client I.D.: 02
ERG Sample No.: 09/160441
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
CADMIUM, TOTAL	ND (0.1)	mg/L
CALCIUM, TOTAL	120	mg/L
CHLORIDE	9	mg/L
CHROMIUM, TOTAL	ND (0.1)	mg/L
COBALT, TOTAL	ND (0.1)	mg/L
COPPER, TOTAL	ND (0.05)	mg/L
FLOURIDE, TOTAL	0.72	mg/L
IRON, TOTAL	24	mg/L
LEAD, TOTAL	ND (0.5)	mg/L
MAGNESIUM, TOTAL	74	mg/L
MANGANESE, TOTAL	0.65	mg/L
MERCURY	ND (0.0002)	mg/L
MOLYBDENUM, TOTAL	ND (1)	mg/L
NICKEL, TOTAL	ND (0.05)	mg/L
AMMONIA NITROGEN	ND (0.01)	mg/L
NITRATE NITROGEN	ND (0.01)	mg/L
NITRITE NITROGEN	0.03	mg/L
OIL AND GREASE BY IR	<1	mg/L
POTASSIUM, TOTAL	2	mg/L
PURGEABLE AROMATICS		
BENZENE	ND (0.2)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	ND (0.07)	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	ND (0.05)	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L
TRICHLOROETHANE, 1,1,1-	ND (0.03)	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	ND (0.10)	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	0.60	ug/L

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc.

Analytical Report

Project: A4837
Report Date: 10-10-86

Client I.D.: 02 GW-9
ERG Sample No.: 09/160441
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	ND (0.03)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
SELENIUM, TOTAL	<0.002	mg/L
HIGHER DETECTION LIMIT DUE TO MATRIX INTERFERENCE.		
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	4.5	mg/L
SOLIDS, TOTAL, DISSOLVED	360	mg/L
SUSPENDED SOLIDS	990	mg/L
SULFATE, TURBIDIMETRIC METH.	24	mg/L
THALLIUM	ND (0.5)	mg/L
TITANIUM	0.7	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	0.6	mg/L

Client I.D.: 03 GW-7
ERG Sample No.: 09/160442
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
ACID FRACTION (PRIOR. POLLS. METH 625)		
CHLOROPHENOL, 2-	ND (10)	ug/L
NITROPHENOL, 2-	ND (10)	ug/L
PHENOL	ND (10)	ug/L
DIMETHYLPHENOL, 2,4-	ND (10)	ug/L
DICHLOROPHENOL, 2,4-	ND (10)	ug/L
TRICHLOROPHENOL, 2,4,6-	ND (10)	ug/L
CHLORO-3-METHYLPHENOL, 4-	ND (10)	ug/L
DINITROPHENOL, 2,4-	ND (50)	ug/L
METHYL-4,6-DINITROPHENOL, 2-	ND (50)	ug/L
PENTACHLOROPHENOL	ND (50)	ug/L
NITROPHENOL, 4-	ND (50)	ug/L
BICARBONATE ALKALINITY	262	mg/L
CARBONATE ALKALINITY	<1	mg/L
ALKALINITY, TOTAL	262	mg/L
ALUMINUM, TOTAL	7.6	mg/L

 See last page for explanation of symbols.

Analytical Report

Project: A4837
Report Date: 10-10-86

Client I.D.: 03 GW-7
ERG Sample No.: 09/160442
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
ANTIMONY	ND (0.01)	mg/L
ARSENIC, TOTAL	0.003	mg/L
B/N FRACTION (PRIOR. POLLS METH. 625)		
ACENAPTHENE	ND (10)	ug/L
ACENAPTHYLENE	ND (10)	ug/L
ANTHRACENE	ND (10)	ug/L
BENZIDINE	ND (50)	ug/L
BENZO(A)ANTHRACENE	ND (10)	ug/L
BENZO(A)PYRENE	ND (10)	ug/L
BENZO(B)FLUORANTHENE	ND (10)	ug/L
BENZO(K)FLUORANTHENE	ND (10)	ug/L
BENZO(G,H,I)PERYLENE	ND (10)	ug/L
BIS(2-CHLOROETHYL)ETHER	ND (10)	ug/L
BIS(2-CHLORETHOXY)METHANE	ND (10)	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	ND (10)	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	ND (10)	ug/L
BROMOPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
BUTYL BENZYL PHTHALATE	ND (10)	ug/L
CHLORONAPHTHALENE, 2-	ND (10)	ug/L
CHLOROPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
CHRYSENE	ND (10)	ug/L
DI-N-BUTYLPHTHALATE	ND (10)	ug/L
DIBENZO(A,H)ANTHRACENE	ND (10)	ug/L
DICHLOROBENZENE, 1,2-	ND (10)	ug/L
DICHLOROBENZENE, 1,3-	ND (10)	ug/L
DICHLOROBENZENE, 1,4-	ND (10)	ug/L
DICHLOROBENZIDINE, 3,3'-	ND (20)	ug/L
DIETHYLPHTHALATE	ND (10)	ug/L
DIMETHYLPHTHALATE	ND (10)	ug/L
DINITROTOLUENE 2,4-	ND (10)	ug/L
DINITROTOLUENE 2,6-	ND (10)	ug/L
DIOCTYLPHTHALATE	ND (10)	ug/L
DIPHENYLHYDRAZINE 1,2-	ND (20)	ug/L
FLUORANTHENE	ND (10)	ug/L
FLUORENE	ND (10)	ug/L
HEXACHLOROBENZENE	ND (10)	ug/L
HEXACHLOROBUTADIENE	ND (10)	ug/L
HEXACHLOROCYCLOPENTADIENE	ND (10)	ug/L
HEXACHLOROETHANE	ND (10)	ug/L
INDENO(1,2,3-CD)PYRENE	ND (10)	ug/L
ISOPHORONE	ND (10)	ug/L
N-NITROSODI-N-PROPYLAMINE	ND (10)	ug/L
N-NITROSODIMETHYLAMINE	ND (10)	ug/L
N-NITROSODIPHENYLAMINE	ND (10)	ug/L
NAPHTHALENE	ND (10)	ug/L
NITROBENZENE	ND (10)	ug/L

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc. **Analytical Report**

Project: A4837
Report Date: 10-10-86

Client I.D.: 03 GW-7
ERG Sample No.: 09/160442
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
PHENANTHRENE	ND (10)	ug/L
PYRENE	ND (10)	ug/L
TRICHLOROBENZENE, 1,2,4-	ND (10)	ug/L
BARIUM, TOTAL	0.10	mg/L
BERYLLIUM, TOTAL	ND (0.01)	mg/L
BORON	ND (0.5)	mg/L
CADMIUM, TOTAL	ND (0.1)	mg/L
CALCIUM, TOTAL	110	mg/L
CHLORIDE	13	mg/L
CHROMIUM, TOTAL	ND (0.1)	mg/L
COBALT, TOTAL	ND (0.1)	mg/L
COPPER, TOTAL	ND (0.05)	mg/L
FLOURIDE, TOTAL	0.39	mg/L
IRON, TOTAL	10	mg/L
LEAD, TOTAL	ND (0.5)	mg/L
MAGNESIUM, TOTAL	46	mg/L
MANGANESE, TOTAL	0.21	mg/L
MERCURY	ND (0.0002)	mg/L
MOLYBDENUM, TOTAL	ND (1)	mg/L
NICKEL, TOTAL	ND (0.05)	mg/L
AMMONIA NITROGEN	0.90	mg/L
NITRATE NITROGEN	ND (0.01)	mg/L
NITRITE NITROGEN	ND (0.01)	mg/L
OIL AND GREASE BY IR	<1	mg/L
POTASSIUM, TOTAL	1	mg/L
PURGEABLE AROMATICS		
BENZENE	ND (0.2)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	ND (0.07)	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	ND (0.05)	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L

 See last page for explanation of symbols.

Analytical Report

Project: A4837
Report Date: 10-10-86

Client I.D.: 03 GW-7
ERG Sample No.: 09/160442
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
TRICHLOROETHANE, 1,1,1-	ND (0.03)	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	ND (0.10)	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	0.55	ug/L
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	ND (0.03)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
SELENIUM, TOTAL	<0.002	mg/L
HIGHER DETECTION LIMIT DUE TO MATRIX INTERFERENCE.		
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	6.1	mg/L
SOLIDS, TOTAL, DISSOLVED	270	mg/L
SUSPENDED SOLIDS	420	mg/L
SULFATE, TURBIDIMETRIC METH.	38	mg/L
THALLIUM	ND (0.5)	mg/L
TITANIUM	0.2	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	0.5	mg/L

Client I.D.: 04 GW-7 Duplicate
ERG Sample No.: 09/160443
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
ACID FRACTION (PRIOR. POLLS. METH 625)		
CHLOROPHENOL, 2-	ND (10)	ug/L
NITROPHENOL, 2-	ND (10)	ug/L
PHENOL	ND (10)	ug/L
DIMETHYLPHENOL, 2,4-	ND (10)	ug/L
DICHLOROPHENOL, 2,4-	ND (10)	ug/L
TRICHLOROPHENOL, 2,4,6-	ND (10)	ug/L
CHLORO-3-METHYLPHENOL, 4-	ND (10)	ug/L
DINITROPHENOL, 2,4-	ND (50)	ug/L
METHYL-4,6-DINITROPHENOL, 2-	ND (50)	ug/L

 See last page for explanation of symbols.

Client I.D.: 04 GW-7 Duplicate
ERG Sample No.: 09/160443
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
PENTACHLOROPHENOL	ND (50)	ug/L
NITROPHENOL, 4-	ND (50)	ug/L
BICARBONATE ALKALINITY	290	mg/L
CARBONATE ALKALINITY	<1	mg/L
ALKALINITY, TOTAL	290	mg/L
ALUMINUM, TOTAL	13	mg/L
ANTIMONY	ND (0.01)	mg/L
ARSENIC, TOTAL	0.006	mg/L
B/N FRACTION (PRIOR. POLLS METH. 625)		
ACENAPTHENE	ND (10)	ug/L
ACENAPTHYLENE	ND (10)	ug/L
ANTHRACENE	ND (10)	ug/L
BENZIDINE	ND (50)	ug/L
BENZO(A)ANTHRACENE	ND (10)	ug/L
BENZO(A)PYRENE	ND (10)	ug/L
BENZO(B)FLUORANTHENE	ND (10)	ug/L
BENZO(K)FLUORANTHENE	ND (10)	ug/L
BENZO(G,H,I)PERYLENE	ND (10)	ug/L
BIS(2-CHLOROETHYL)ETHER	ND (10)	ug/L
BIS(2-CHLORETHOXY)METHANE	ND (10)	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	ND (10)	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	ND (10)	ug/L
BROMOPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
BUTYL BENZYL PHTHALATE	ND (10)	ug/L
CHLORONAPHTHALENE, 2-	ND (10)	ug/L
CHLOROPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
CHRYSENE	ND (10)	ug/L
DI-N-BUTYLPHTHALATE	ND (10)	ug/L
DIBENZO(A,H)ANTHRACENE	ND (10)	ug/L
DICHLOROBENZENE, 1,2-	ND (10)	ug/L
DICHLOROBENZENE, 1,3-	ND (10)	ug/L
DICHLOROBENZENE, 1,4-	ND (10)	ug/L
DICHLOROBENZIDINE, 3,3'-	ND (20)	ug/L
DIETHYLPHTHALATE	ND (10)	ug/L
DIMETHYLPHTHALATE	ND (10)	ug/L
DINITROTOLUENE 2,4-	ND (10)	ug/L
DINITROTOLUENE 2,6-	ND (10)	ug/L
DIOCTYLPHTHALATE	ND (10)	ug/L
DIPHENYLHYDRAZINE 1,2-	ND (20)	ug/L
FLUORANTHENE	ND (10)	ug/L
FLUORENE	ND (10)	ug/L
HEXACHLOROBENZENE	ND (10)	ug/L
HEXACHLOROBUTADIENE	ND (10)	ug/L
HEXACHLOROCYCLOPENTADIENE	ND (10)	ug/L
HEXACHLOROETHANE	ND (10)	ug/L
INDENO(1,2,3-CD)PYRENE	ND (10)	ug/L

 See last page for explanation of symbols.

GW-7 Duplicate

Client I.D.: 04
ERG Sample No.: 09/160443
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
ISOPHORONE	ND (10)	ug/L
N-NITROSODI-N-PROPYLAMINE	ND (10)	ug/L
N-NITROSODIMETHYLAMINE	ND (10)	ug/L
N-NITROSODIPHENYLAMINE	ND (10)	ug/L
NAPHTHALENE	ND (10)	ug/L
NITROBENZENE	ND (10)	ug/L
PHENANTHRENE	ND (10)	ug/L
PYRENE	ND (10)	ug/L
TRICHLOROBENZENE, 1,2,4-	ND (10)	ug/L
BARIUM, TOTAL	0.15	mg/L
BERYLLIUM, TOTAL	ND (0.01)	mg/L
BORON	ND (0.5)	mg/L
CADMIUM, TOTAL	ND (0.1)	mg/L
CALCIUM, TOTAL	110	mg/L
CHLORIDE	12	mg/L
AVERAGE OF DUPLICATE RUNS		
CHROMIUM, TOTAL	ND (0.1)	mg/L
COBALT, TOTAL	ND (0.1)	mg/L
COPPER, TOTAL	ND (0.05)	mg/L
FLOURIDE, TOTAL	0.48	mg/L
IRON, TOTAL	19	mg/L
LEAD, TOTAL	ND (0.5)	mg/L
MAGNESIUM, TOTAL	63	mg/L
MANGANESE, TOTAL	0.39	mg/L
MERCURY	ND (0.0002)	mg/L
MOLYBDENUM, TOTAL	ND (1)	mg/L
NICKEL, TOTAL	ND (0.05)	mg/L
AMMONIA NITROGEN	ND (0.01)	mg/L
NITRATE NITROGEN	ND (0.01)	mg/L
NITRITE NITROGEN	0.04	mg/L
OIL AND GREASE BY IR	<1	mg/L
POTASSIUM, TOTAL	2	mg/L
PURGEABLE AROMATICS		
BENZENE	1.8	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L

 See last page for explanation of symbols.

Analytical Report

Project: A4837
Report Date: 10-10-86

GW-7 Duplicate

Client I.D.: 04
ERG Sample No.: 09/160443
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	ND (0.07)	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	ND (0.05)	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L
TRICHLOROETHANE, 1,1,1-	0.14	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	ND (0.10)	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	0.39	ug/L
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	ND (0.03)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
SELENIUM, TOTAL	<0.002	mg/L
HIGHER DETECTION LIMIT DUE TO MATRIX INTERFERENCE.		
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	5.6	mg/L
SOLIDS, TOTAL, DISSOLVED	280	mg/L
SUSPENDED SOLIDS	340	mg/L
SULFATE, TURBIDIMETRIC METH.	35	mg/L
THALLIUM	ND (0.5)	mg/L
TITANIUM	0.9	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	0.8	mg/L

Field Blank

Client I.D.: 05
ERG Sample No.: 09/160444
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc. **Analytical Report**

Project: A4837
Report Date: 10-10-86

Field Blank

Client I.D.: 05
ERG Sample No.: 09/160444
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
ACID FRACTION (PRIOR. POLLS. METH 625)		
CHLOROPHENOL, 2-	ND (10)	ug/L
NITROPHENOL, 2-	ND (10)	ug/L
PHENOL	ND (10)	ug/L
DIMETHYLPHENOL, 2,4-	ND (10)	ug/L
DICHLOROPHENOL, 2,4-	ND (10)	ug/L
TRICHLOROPHENOL, 2,4,6-	ND (10)	ug/L
CHLORO-3-METHYLPHENOL, 4-	ND (10)	ug/L
DINITROPHENOL, 2,4-	ND (50)	ug/L
METHYL-4,6-DINITROPHENOL, 2-	ND (50)	ug/L
PENTACHLOROPHENOL	ND (50)	ug/L
NITROPHENOL, 4-	ND (50)	ug/L
BICARBONATE ALKALINITY	4.6	mg/L
CARBONATE ALKALINITY	<1	mg/L
ALKALINITY, TOTAL	4.6	mg/L
ALUMINUM, TOTAL	ND (0.1)	mg/L
ANTIMONY	ND (0.01)	mg/L
ARSENIC, TOTAL	ND (0.001)	mg/L
B/N FRACTION (PRIOR. POLLS METH. 625)		
ACENAPTHENE	ND (10)	ug/L
ACENAPTHYLENE	ND (10)	ug/L
ANTHRACENE	ND (10)	ug/L
BENZIDINE	ND (50)	ug/L
BENZO(A)ANTHRACENE	ND (10)	ug/L
BENZO(A)PYRENE	ND (10)	ug/L
BENZO(B)FLUORANTHENE	ND (10)	ug/L
BENZO(K)FLUORANTHENE	ND (10)	ug/L
BENZO(G,H,I)PERYLENE	ND (10)	ug/L
BIS(2-CHLOROETHYL)ETHER	ND (10)	ug/L
BIS(2-CHLORETHOXY)METHANE	ND (10)	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	ND (10)	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	ND (10)	ug/L
BROMOPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
BUTYL BENZYL PHTHALATE	ND (10)	ug/L
CHLORONAPHTHALENE, 2-	ND (10)	ug/L
CHLOROPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
CHRYSENE	ND (10)	ug/L
DI-N-BUTYLPHTHALATE	ND (10)	ug/L
DIBENZO(A,H)ANTHRACENE	ND (10)	ug/L
DICHLOROBENZENE, 1,2-	ND (10)	ug/L
DICHLOROBENZENE, 1,3-	ND (10)	ug/L
DICHLOROBENZENE, 1,4-	ND (10)	ug/L
DICHLOROBENZIDINE, 3,3'-	ND (20)	ug/L
DIETHYLPHTHALATE	ND (10)	ug/L
DIMETHYLPHTHALATE	ND (10)	ug/L
DINITROTOLUENE 2,4-	ND (10)	ug/L

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc.

Analytical Report

Project: A 1837
Report Date: 10-10-86

Client I.D.: 05 Field Blank
ERG Sample No.: 09/160444
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L
DICHLOROETHYLENE, 1,1-	0.21	ug/L
DICHLOROETHANE, 1,1-	0.15	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	8.6	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L
TRICHLOROETHANE, 1,1,1-	0.14	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	0.31	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	0.25	ug/L
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	0.038	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
SELENIUM, TOTAL	0.001	mg/L
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	ND (0.5)	mg/L
SOLIDS, TOTAL, DISSOLVED	12	mg/L
SUSPENDED SOLIDS	3.1	mg/L
AVERAGE OF DUPLICATE RUNS		
SULFATE, TURBIDIMETRIC METH.	<1	mg/L
THALLIUM	ND (0.5)	mg/L
TITANIUM	0.1	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	ND (0.1)	mg/L

 See last page for explanation of symbols.

Analytical Report

Project: A4837
Report Date: 10-10-86

GW-10

Client I.D.: 06
ERG Sample No.: 09/160445
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
DINITROTOLUENE 2,6-	ND (10)	ug/L
DIOCTYLPHTHALATE	ND (10)	ug/L
DIPHENYLHYDRAZINE 1,2-	ND (20)	ug/L
FLUORANTHENE	ND (10)	ug/L
FLUORENE	ND (10)	ug/L
HEXACHLOROBENZENE	ND (10)	ug/L
HEXACHLOROBUTADIENE	ND (10)	ug/L
HEXACHLOROCYCLOPENTADIENE	ND (10)	ug/L
HEXACHLOROETHANE	ND (10)	ug/L
INDENO(1,2,3-CD)PYRENE	ND (10)	ug/L
ISOPHORONE	ND (10)	ug/L
N-NITROSODI-N-PROPYLAMINE	ND (10)	ug/L
N-NITROSODIMETHYLAMINE	ND (10)	ug/L
N-NITROSODIPHENYLAMINE	ND (10)	ug/L
NAPHTHALENE	ND (10)	ug/L
NITROBENZENE	ND (10)	ug/L
PHENANTHRENE	ND (10)	ug/L
PYRENE	ND (10)	ug/L
TRICHLOROBENZENE,1,2,4-	ND (10)	ug/L
BARIUM, TOTAL	0.51	mg/L
BERYLLIUM, TOTAL	ND (0.01)	mg/L
BORON	ND (0.5)	mg/L
CADMIUM, TOTAL	ND (0.1)	mg/L
CALCIUM, TOTAL	120	mg/L
CHLORIDE	8	mg/L
CHROMIUM, TOTAL	ND (0.1)	mg/L
COBALT, TOTAL	ND (0.1)	mg/L
COPPER, TOTAL	ND (0.05)	mg/L
FLOURIDE, TOTAL	0.37	mg/L
AVERAGE OF DUPLICATE RUNS		
IRON, TOTAL	34	mg/L
LEAD, TOTAL	ND (0.5)	mg/L
MAGNESIUM, TOTAL	68	mg/L
MANGANESE, TOTAL	1.1	mg/L
MERCURY	ND (0.0002)	mg/L
MOLYBDENUM, TOTAL	ND (1)	mg/L
NICKEL, TOTAL	ND (0.05)	mg/L
AMMONIA NITROGEN	0.03	mg/L
NITRATE NITROGEN	ND (0.01)	mg/L
NITRITE NITROGEN	0.03	mg/L
OIL AND GREASE BY IR	<1	mg/L
POTASSIUM, TOTAL	2	mg/L

 See last page for explanation of symbols.

TMA ERG Thermo Analytical Inc. Analytical Report

Project: A4837
Report Date: 10-10-86

Client I.D.: 06 GW-10
ERG Sample No.: 09/160445
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
PURGEABLE AROMATICS		
BENZENE	ND (0.2)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	ND (0.07)	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	ND (0.05)	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L
TRICHLOROETHANE, 1,1,1-	0.047	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	ND (0.10)	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	0.63	ug/L
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	ND (0.03)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
SELENIUM, TOTAL	<0.005	mg/L
HIGHER DETECTION LIMIT DUE TO MATRIX INTERFERENCE.		
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	5.4	mg/L
SOLIDS, TOTAL, DISSOLVED	200	mg/L
SUSPENDED SOLIDS	15	mg/L
SULFATE, TURBIDIMETRIC METH.	90	mg/L

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc. **Analytical Report**

Project: A4837
Report Date: 10-10-86

GW-10

Client I.D.: 06
ERG Sample No.: 09/160445
Matrix: GROUND WATER
Date Sampled: 09-25-86

Parameter	Result	Units
THALLIUM	ND (0.5)	mg/L
TITANIUM	1.3	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	0.6	mg/L

SD-Sample damaged
FR-See field report for result
SR-See attached report
NA-Result not applicable to test

ND-Nondetected, Detection limit in ()
<-Positive result at an unquantifiable concentration below indicated level

Thank you for your business.

TMA ERG
Thermo Analytical Inc.

Analytical Report

117 N. FIRST
ANN ARBOR, MICHIGAN 48104 (313) 662-3104

Project: A4849
Report Date: 10-10-86

Client P.O.
Report: 21900

Samples Recvd: 09-29-86
Refer Questions To:
ROBYN WOOLEY

Client:
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
8400 WESTPARK DRIVE
MC LEAN, VA 22102
Attention: PHIL SPOONER

Approved:

***
Residual Samples Will Be Held
TWO WEEKS
***

GW-5

Client I.D.: 07
ERG Sample No.: 09/160587
Matrix: GROUND WATER

Parameter	Result	Units
ACID FRACTION (PRIOR. POLLS. METH 625)		
CHLOROPHENOL, 2-	ND (10)	ug/L
NITROPHENOL, 2-	ND (10)	ug/L
PHENOL	ND (10)	ug/L
DIMETHYLPHENOL, 2,4-	ND (10)	ug/L
DICHLOROPHENOL, 2,4-	ND (10)	ug/L
TRICHLOROPHENOL, 2,4,6-	ND (10)	ug/L
CHLORO-3-METHYLPHENOL, 4-	ND (10)	ug/L
DINITROPHENOL, 2,4-	ND (50)	ug/L
METHYL-4,6-DINITROPHENOL, 2-	ND (50)	ug/L
PENTACHLOROPHENOL	ND (50)	ug/L
NITROPHENOL, 4-	ND (50)	ug/L
BICARBONATE ALKALINITY	200	mg/L
CARBONATE ALKALINITY	<1	mg/L
ALKALINITY, TOTAL	200	mg/L
ALUMINUM, TOTAL	0.6	mg/L
ANTIMONY	ND (0.01)	mg/L
ARSENIC, TOTAL	0.002	mg/L
AVERAGE OF DUPLICATE RUNS		
B/N FRACTION (PRIOR. POLLS METH. 625)		
ACENAPTHENE	ND (10)	ug/L
ACENAPTHYLENE	ND (10)	ug/L
ANTHRACENE	ND (10)	ug/L
BENZIDINE	ND (50)	ug/L
BENZO(A)ANTHRACENE	ND (10)	ug/L
BENZO(A)PYRENE	ND (10)	ug/L
BENZO(B)FLUORANTHENE	ND (10)	ug/L
BENZO(K)FLUORANTHENE	ND (10)	ug/L
BENZO(G,H,I)PERYLENE	ND (10)	ug/L
BIS(2-CHLOROETHYL)ETHER	ND (10)	ug/L
BIS(2-CHLORETHOXY)METHANE	ND (10)	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	ND (10)	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	ND (10)	ug/L
BROMOPHENYL PHENYL ETHER, 4-	ND (10)	ug/L

 See last page for explanation of symbols.

GW-5

Client I.D.: 07
ERG Sample No.: 09/160587
Matrix: GROUND WATER

Parameter	Result	Units
BUTYL BENZYL PHTHALATE	ND (10)	ug/L
CHLORONAPHTHALENE, 2-	ND (10)	ug/L
CHLOROPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
CHRYSENE	ND (10)	ug/L
DI-N-BUTYLPHTHALATE	ND (10)	ug/L
DIBENZO(A, H)ANTHRACENE	ND (10)	ug/L
DICHLOROBENZENE, 1,2-	ND (10)	ug/L
DICHLOROBENZENE, 1,3-	ND (10)	ug/L
DICHLOROBENZENE, 1,4-	ND (10)	ug/L
DICHLOROBENZIDINE, 3,3'-	ND (20)	ug/L
DIETHYLPHTHALATE	ND (10)	ug/L
DIMETHYLPHTHALATE	ND (10)	ug/L
DINITROTOLUENE 2,4-	ND (10)	ug/L
DINITROTOLUENE 2,6-	ND (10)	ug/L
DIOCTYLPHTHALATE	ND (10)	ug/L
DIPHENYLHYDRAZINE 1,2-	ND (20)	ug/L
FLUORANTHENE	ND (10)	ug/L
FLUORENE	ND (10)	ug/L
HEXACHLOROBENZENE	ND (10)	ug/L
HEXACHLOROBUTADIENE	ND (10)	ug/L
HEXACHLOROCYCLOPENTADIENE	ND (10)	ug/L
HEXACHLOROETHANE	ND (10)	ug/L
INDENO(1,2,3-CD)PYRENE	ND (10)	ug/L
ISOPHORONE	ND (10)	ug/L
N-NITROSODI-N-PROPYLAMINE	ND (10)	ug/L
N-NITROSODIMETHYLAMINE	ND (10)	ug/L
N-NITROSODIPHENYLAMINE	ND (10)	ug/L
NAPHTHALENE	ND (10)	ug/L
NITROBENZENE	ND (10)	ug/L
PHENANTHRENE	ND (10)	ug/L
PYRENE	ND (10)	ug/L
TRICHLOROBENZENE, 1,2,4-	ND (10)	ug/L
BARIUM, TOTAL	0.04	mg/L
BERYLLIUM, TOTAL	ND (0.01)	mg/L
BORON	ND (0.5)	mg/L
CADMIUM, TOTAL	ND (0.1)	mg/L
CALCIUM, TOTAL	64	mg/L
CHLORIDE	52	mg/L
CHROMIUM, TOTAL	ND (0.1)	mg/L
COBALT, TOTAL	ND (0.1)	mg/L
COPPER, TOTAL	ND (0.05)	mg/L
FLOURIDE, TOTAL	0.12	mg/L
IRON, TOTAL	0.6	mg/L
LEAD, TOTAL	ND (0.5)	mg/L
MAGNESIUM, TOTAL	37	mg/L
MANGANESE, TOTAL	ND (0.1)	mg/L

See last page for explanation of symbols.

Analytical Report

Project: A4849
Report Date: 10-10-86

GW-5

Client I.D.: 07
ERG Sample No.: 09/160587
Matrix: GROUND WATER

Parameter	Result	Units
MERCURY	ND (0.0002)	mg/L
MOLYBDENUM, TOTAL	ND (1)	mg/L
NICKEL, TOTAL	ND (0.05)	mg/L
AMMONIA NITROGEN	0.16	mg/L
AVERAGE OF DUPLICATE RUNS		
NITRATE NITROGEN	ND (0.01)	mg/L
AVERAGE OF DUPLICATE RUNS		
NITRITE NITROGEN	ND (0.01)	mg/L
AVERAGE OF DUPLICATE RUNS		
OIL AND GREASE BY IR	<1	mg/L
POTASSIUM, TOTAL	<1	mg/L
PURGEABLE AROMATICS		
BENZENE	ND (0.2)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	ND (0.07)	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	ND (0.05)	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L
TRICHLOROETHANE, 1,1,1-	ND (0.03)	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	ND (0.10)	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	0.16	ug/L
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	ND (0.03)	ug/L

 See last page for explanation of symbols.

Analytical Report

Client I.D.: 07 GW-5
ERG Sample No.: 09/160587
Matrix: GROUND WATER

Parameter	Result	Units
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
SELENIUM, TOTAL	<0.001	mg/L
AVERAGE OF DUPLICATE RUNS		
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	13	mg/L
SOLIDS, TOTAL, DISSOLVED	340	mg/L
SUSPENDED SOLIDS	2.5	mg/L
SULFATE, TURBIDIMETRIC METH.	110	mg/L
THALLIUM	ND (0.5)	mg/L
TITANIUM	ND (0.1)	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	0.2	mg/L

Client I.D.: 08 GW-3
ERG Sample No.: 09/160588
Matrix: GROUND WATER

Parameter	Result	Units
ACID FRACTION (PRIOR. POLLS. METH 625)		
CHLOROPHENOL, 2-	ND (10)	ug/L
NITROPHENOL, 2-	ND (10)	ug/L
PHENOL	ND (10)	ug/L
DIMETHYLPHENOL, 2,4-	ND (10)	ug/L
DICHLOROPHENOL, 2,4-	ND (10)	ug/L
TRICHLOROPHENOL, 2,4,6-	ND (10)	ug/L
CHLORO-3-METHYLPHENOL, 4-	ND (10)	ug/L
DINITROPHENOL, 2,4-	ND (50)	ug/L
METHYL-4,6-DINITROPHENOL, 2-	ND (50)	ug/L
PENTACHLOROPHENOL	ND (50)	ug/L
NITROPHENOL, 4-	ND (50)	ug/L
BICARBONATE ALKALINITY	360	mg/L
CARBONATE ALKALINITY	<1	mg/L
ALKALINITY, TOTAL	360	mg/L
ALUMINUM, TOTAL	1.7	mg/L
ANTIMONY	ND (0.01)	mg/L
ARSENIC, TOTAL	0.002	mg/L
B/N FRACTION (PRIOR. POLLS METH. 625)		
ACENAPTHENE	ND (10)	ug/L
ACENAPTHYLENE	ND (10)	ug/L
ANTHRACENE	ND (10)	ug/L
BENZIDINE	ND (50)	ug/L
BENZO(A)ANTHRACENE	ND (10)	ug/L
BENZO(A)PYRENE	ND (10)	ug/L

 See last page for explanation of symbols.

GW-3

Client I.D.: 08
ERG Sample No.: 09/160588
Matrix: GROUND WATER

Parameter	Result	Units
BENZO(B)FLUORANTHENE	ND (10)	ug/L
BENZO(K)FLUORANTHENE	ND (10)	ug/L
BENZO(G,H,I)PERYLENE	ND (10)	ug/L
BIS(2-CHLOROETHYL)ETHER	ND (10)	ug/L
BIS(2-CHLORETHOXY)METHANE	ND (10)	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	ND (10)	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	ND (10)	ug/L
BROMOPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
BUTYL BENZYL PHTHALATE	ND (10)	ug/L
CHLORONAPHTHALENE, 2-	ND (10)	ug/L
CHLOROPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
CHRYSENE	ND (10)	ug/L
DI-N-BUTYLPHTHALATE	ND (10)	ug/L
DIBENZO(A,H)ANTHRACENE	ND (10)	ug/L
DICHLOROBENZENE, 1,2-	ND (10)	ug/L
DICHLOROBENZENE, 1,3-	ND (10)	ug/L
DICHLOROBENZENE, 1,4-	ND (10)	ug/L
DICHLOROBENZIDINE, 3,3'-	ND (20)	ug/L
DIETHYLPHTHALATE	ND (10)	ug/L
DIMETHYLPHTHALATE	ND (10)	ug/L
DINITROTOLUENE 2,4-	ND (10)	ug/L
DINITROTOLUENE 2,6-	ND (10)	ug/L
DIOCTYLPHTHALATE	ND (10)	ug/L
DIPHENYLHYDRAZINE 1,2-	ND (20)	ug/L
FLUORANTHENE	ND (10)	ug/L
FLUORENE	ND (10)	ug/L
HEXACHLOROBENZENE	ND (10)	ug/L
HEXACHLOROBUTADIENE	ND (10)	ug/L
HEXACHLOROCYCLOPENTADIENE	ND (10)	ug/L
HEXACHLOROETHANE	ND (10)	ug/L
INDENO(1,2,3-CD)PYRENE	ND (10)	ug/L
ISOPHORONE	ND (10)	ug/L
N-NITROSODI-N-PROPYLAMINE	ND (10)	ug/L
N-NITROSODIMETHYLAMINE	ND (10)	ug/L
N-NITROSODIPHENYLAMINE	ND (10)	ug/L
NAPHTHALENE	ND (10)	ug/L
NITROBENZENE	ND (10)	ug/L
PHENANTHRENE	ND (10)	ug/L
PYRENE	ND (10)	ug/L
TRICHLOROBENZENE, 1,2,4-	ND (10)	ug/L
BARIUM, TOTAL	0.11	mg/L
BERYLLIUM, TOTAL	ND (0.01)	mg/L
BORON	ND (0.5)	mg/L
CADMIUM, TOTAL	ND (0.1)	mg/L
CALCIUM, TOTAL	110	mg/L
CHLORIDE	54	mg/L

 See last page for explanation of symbols.

TMA ERG Thermo Analytical Inc. Analytical Report

Project: A4849
Report Date: 10-10-86

Client I.D.: 08 GW-3
ERG Sample No.: 09/160588
Matrix: GROUND WATER

Parameter	Result	Units
CHROMIUM, TOTAL	ND (0.1)	mg/L
COBALT, TOTAL	ND (0.1)	mg/L
COPPER, TOTAL	ND (0.05)	mg/L
FLOURIDE, TOTAL	0.25	mg/L
IRON, TOTAL	0.9	mg/L
LEAD, TOTAL	ND (0.5)	mg/L
MAGNESIUM, TOTAL	37	mg/L
MANGANESE, TOTAL	<0.1	mg/L
MERCURY	ND (0.0002)	mg/L
MOLYBDENUM, TOTAL	ND (1)	mg/L
NICKEL, TOTAL	ND (0.05)	mg/L
AMMONIA NITROGEN	0.35	mg/L
NITRATE NITROGEN	0.36	mg/L
NITRITE NITROGEN	ND (0.01)	mg/L
OIL AND GREASE BY IR	<1	mg/L
POTASSIUM, TOTAL	1	mg/L
PURGEABLE AROMATICS		
BENZENE	ND (0.2)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	ND (0.07)	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	ND (0.05)	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L
TRICHLOROETHANE, 1,1,1-	ND (0.03)	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	ND (0.10)	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	0.45	ug/L
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L

 See last page for explanation of symbols.

Client I.D.: 08 GW-3
ERG Sample No.: 09/160588
Matrix: GROUND WATER

Parameter	Result	Units
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	ND (0.03)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
SELENIUM, TOTAL	<0.001	mg/L
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	30	mg/L
SOLIDS, TOTAL, DISSOLVED	470	mg/L
SUSPENDED SOLIDS	34	mg/L
SULFATE, TURBIDIMETRIC METH.	130	mg/L
THALLIUM	ND (0.5)	mg/L
TITANIUM	ND (0.1)	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	0.4	mg/L

Client I.D.: 09 GW-2
ERG Sample No.: 09/160589
Matrix: GROUND WATER

Parameter	Result	Units
ACID FRACTION (PRIOR. POLLS. METH 625)		
CHLOROPHENOL, 2-	ND (10)	ug/L
NITROPHENOL, 2-	ND (10)	ug/L
PHENOL	ND (10)	ug/L
DIMETHYLPHENOL, 2,4-	ND (10)	ug/L
DICHLOROPHENOL, 2,4-	ND (10)	ug/L
TRICHLOROPHENOL, 2,4,6-	ND (10)	ug/L
CHLORO-3-METHYLPHENOL, 4-	ND (10)	ug/L
DINITROPHENOL, 2,4-	ND (50)	ug/L
METHYL-4,6-DINITROPHENOL, 2-	ND (50)	ug/L
PENTACHLOROPHENOL	ND (50)	ug/L
NITROPHENOL, 4-	ND (50)	ug/L
BICARBONATE ALKALINITY	510	mg/L
CARBONATE ALKALINITY	<1	mg/L
ALKALINITY, TOTAL	510	mg/L
ALUMINUM, TOTAL	3.7	mg/L
ANTIMONY	ND (0.01)	mg/L
ARSENIC, TOTAL	0.073	mg/L
B/N FRACTION (PRIOR. POLLS METH. 625)		
ACENAPTHENE	ND (10)	ug/L
ACENAPTHYLENE	ND (10)	ug/L
ANTHRACENE	ND (10)	ug/L
BENZIDINE	ND (50)	ug/L

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc.

Analytical Report

Project: A4849
Report Date: 10-10-86

Client I.D.: 09 GW-2
ERG Sample No.: 09/160589
Matrix: GROUND WATER

Parameter	Result	Units
BENZO(A)ANTHRACENE	ND (10)	ug/L
BENZO(A)PYRENE	ND (10)	ug/L
BENZO(B)FLUORANTHENE	ND (10)	ug/L
BENZO(K)FLUORANTHENE	ND (10)	ug/L
BENZO(G,H,I)PERYLENE	ND (10)	ug/L
BIS(2-CHLOROETHYL)ETHER	ND (10)	ug/L
BIS(2-CHLORETHOXY)METHANE	ND (10)	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	ND (10)	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	ND (10)	ug/L
BROMOPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
BUTYL BENZYL PHTHALATE	ND (10)	ug/L
CHLORONAPHTHALENE, 2-	ND (10)	ug/L
CHLOROPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
CHRYSENE	ND (10)	ug/L
DI-N-BUTYLPHTHALATE	ND (10)	ug/L
DIBENZO(A,H)ANTHRACENE	ND (10)	ug/L
DICHLOROBENZENE, 1,2-	ND (10)	ug/L
DICHLOROBENZENE, 1,3-	ND (10)	ug/L
DICHLOROBENZENE, 1,4-	ND (10)	ug/L
DICHLOROBENZIDINE, 3,3'-	ND (20)	ug/L
DIETHYLPHTHALATE	ND (10)	ug/L
DIMETHYLPHTHALATE	ND (10)	ug/L
DINITROTOLUENE 2,4-	ND (10)	ug/L
DINITROTOLUENE 2,6-	ND (10)	ug/L
DIOCTYLPHTHALATE	ND (10)	ug/L
DIPHENYLHYDRAZINE 1,2-	ND (20)	ug/L
FLUORANTHENE	ND (10)	ug/L
FLUORENE	ND (10)	ug/L
HEXACHLOROBENZENE	ND (10)	ug/L
HEXACHLOROBUTADIENE	ND (10)	ug/L
HEXACHLOROCYCLOPENTADIENE	ND (10)	ug/L
HEXACHLOROETHANE	ND (10)	ug/L
INDENO(1,2,3-CD)PYRENE	ND (10)	ug/L
ISOPHORONE	ND (10)	ug/L
N-NITROSODI-N-PROPYLAMINE	ND (10)	ug/L
N-NITROSODIMETHYLAMINE	ND (10)	ug/L
N-NITROSODIPHENYLAMINE	ND (10)	ug/L
NAPHTHALENE	ND (10)	ug/L
NITROBENZENE	ND (10)	ug/L
PHENANTHRENE	ND (10)	ug/L
PYRENE	ND (10)	ug/L
TRICHLOROBENZENE, 1,2,4-	ND (10)	ug/L
BARIUM, TOTAL	0.40	mg/L
BERYLLIUM, TOTAL	ND (0.01)	mg/L
BORON	ND (0.5)	mg/L
CADMIUM, TOTAL	<0.1	mg/L

See last page for explanation of symbols.

TMA ERG Thermo Analytical Inc. Analytical Report

Project: A4849
Report Date: 10-10-86

Client I.D.: 09 GW-2
ERG Sample No.: 09/160589
Matrix: GROUND WATER

Parameter	Result	Units
CALCIUM, TOTAL	120	mg/L
CHLORIDE	180	mg/L
CHROMIUM, TOTAL	ND (0.1)	mg/L
COBALT, TOTAL	ND (0.1)	mg/L
COPPER, TOTAL	ND (0.05)	mg/L
FLOURIDE, TOTAL	0.65	mg/L
IRON, TOTAL	26	mg/L
LEAD, TOTAL	ND (0.5)	mg/L
MAGNESIUM, TOTAL	59	mg/L
MANGANESE, TOTAL	3.4	mg/L
MERCURY	<0.0002	mg/L
MOLYBDENUM, TOTAL	ND (1)	mg/L
NICKEL, TOTAL	ND (0.05)	mg/L
AMMONIA NITROGEN	1.0	mg/L
NITRATE NITROGEN	ND (0.01)	mg/L
NITRITE NITROGEN	0.04	mg/L
OIL AND GREASE BY IR	<1	mg/L
POTASSIUM, TOTAL	5	mg/L
PURGEABLE AROMATICS		
BENZENE	ND (0.2)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	ND (0.07)	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	ND (0.05)	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L
TRICHLOROETHANE, 1,1,1-	ND (0.03)	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	ND (0.10)	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	ND (0.12)	ug/L
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L

 See last page for explanation of symbols.

Client I.D.: 09 GW-2
ERG Sample No.: 09/160589
Matrix: GROUND WATER

Parameter	Result	Units
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	ND (0.03)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
SELENIUM, TOTAL	ND (0.002)	mg/L
HIGHER DETECTION LIMIT DUE TO MATRIX INTERFERENCE.		
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	45	mg/L
SOLIDS, TOTAL, DISSOLVED	740	mg/L
AVERAGE OF DUPLICATE RUNS		
SUSPENDED SOLIDS	440	mg/L
SULFATE, TURBIDIMETRIC METH.	13	mg/L
THALLIUM	ND (0.5)	mg/L
TITANIUM	<0.1	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	0.8	mg/L

Client I.D.: 10 GW-1
ERG Sample No.: 09/160590
Matrix: GROUND WATER

Parameter	Result	Units
ACID FRACTION (PRIOR. POLLS. METH 625)		
CHLOROPHENOL, 2-	ND (10)	ug/L
NITROPHENOL, 2-	ND (10)	ug/L
PHENOL	ND (10)	ug/L
DIMETHYLPHENOL, 2,4-	ND (10)	ug/L
DICHLOROPHENOL, 2,4-	ND (10)	ug/L
TRICHLOROPHENOL, 2,4,6-	ND (10)	ug/L
CHLORO-3-METHYLPHENOL, 4-	ND (10)	ug/L
DINITROPHENOL, 2,4-	ND (50)	ug/L
METHYL-4,6-DINITROPHENOL, 2-	ND (50)	ug/L
PENTACHLOROPHENOL	ND (50)	ug/L
NITROPHENOL, 4-	ND (50)	ug/L
BICARBONATE ALKALINITY	180	mg/L
CARBONATE ALKALINITY	<1	mg/L
ALKALINITY, TOTAL	180	mg/L
ALUMINUM, TOTAL	2.6	mg/L
ANTIMONY	ND (0.01)	mg/L

 See last page for explanation of symbols.

Analytical Report

Project: A4849
Report Date: 10-10-86

Client I.D.: 10 GW-1
ERG Sample No.: 09/160590
Matrix: GROUND WATER

Parameter	Result	Units
ARSENIC, TOTAL	0.004	mg/L
B/N FRACTION (PRIOR. POLLS METH. 625)		
ACENAPTHENE	ND (10)	ug/L
ACENAPTHYLENE	ND (10)	ug/L
ANTHRACENE	ND (10)	ug/L
BENZIDINE	ND (50)	ug/L
BENZO(A)ANTHRACENE	ND (10)	ug/L
BENZO(A)PYRENE	ND (10)	ug/L
BENZO(B)FLUORANTHENE	ND (10)	ug/L
BENZO(K)FLUORANTHENE	ND (10)	ug/L
BENZO(G,H,I)PERYLENE	ND (10)	ug/L
BIS(2-CHLOROETHYL)ETHER	ND (10)	ug/L
BIS(2-CHLORETHOXY)METHANE	ND (10)	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	ND (10)	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	ND (10)	ug/L
BROMOPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
BUTYL BENZYL PHTHALATE	ND (10)	ug/L
CHLORONAPHTHALENE, 2-	ND (10)	ug/L
CHLOROPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
CHRYSENE	ND (10)	ug/L
DI-N-BUTYLPHTHALATE	ND (10)	ug/L
DIBENZO(A,H)ANTHRACENE	ND (10)	ug/L
DICHLOROBENZENE, 1,2-	ND (10)	ug/L
DICHLOROBENZENE, 1,3-	ND (10)	ug/L
DICHLOROBENZENE, 1,4-	ND (10)	ug/L
DICHLOROBENZIDINE, 3,3'-	ND (20)	ug/L
DIETHYLPHTHALATE	ND (10)	ug/L
DIMETHYLPHTHALATE	ND (10)	ug/L
DINITROTOLUENE 2,4-	ND (10)	ug/L
DINITROTOLUENE 2,6-	ND (10)	ug/L
DIOCTYLPHTHALATE	ND (10)	ug/L
DIPHENYLHYDRAZINE 1,2-	ND (20)	ug/L
FLUORANTHENE	ND (10)	ug/L
FLUORENE	ND (10)	ug/L
HEXACHLOROBENZENE	ND (10)	ug/L
HEXACHLOROBUTADIENE	ND (10)	ug/L
HEXACHLOROCYCLOPENTADIENE	ND (10)	ug/L
HEXACHLOROETHANE	ND (10)	ug/L
INDENO(1,2,3-CD)PYRENE	ND (10)	ug/L
ISOPHORONE	ND (10)	ug/L
N-NITROSODI-N-PROPYLAMINE	ND (10)	ug/L
N-NITROSODIMETHYLAMINE	ND (10)	ug/L
N-NITROSODIPHENYLAMINE	ND (10)	ug/L
NAPHTHALENE	ND (10)	ug/L
NITROBENZENE	ND (10)	ug/L
PHENANTHRENE	ND (10)	ug/L

 See last page for explanation of symbols.

GW-1

Client I.D.: 10
ERG Sample No.: 09/160590
Matrix: GROUND WATER

Parameter	Result	Units
PYRENE	ND (10)	ug/L
TRICHLOROBENZENE, 1, 2, 4-	ND (10)	ug/L
BARIUM, TOTAL	0.04	mg/L
BERYLLIUM, TOTAL	ND (0.01)	mg/L
BORON	ND (0.5)	mg/L
CADMIUM, TOTAL	ND (0.1)	mg/L
CALCIUM, TOTAL	110	mg/L
CHLORIDE	26	mg/L
CHROMIUM, TOTAL	ND (0.1)	mg/L
COBALT, TOTAL	0.1	mg/L
COPPER, TOTAL	0.12	mg/L
FLOURIDE, TOTAL	0.58	mg/L
AVERAGE OF DUPLICATE RUNS		
IRON, TOTAL	72	mg/L
LEAD, TOTAL	ND (0.5)	mg/L
MAGNESIUM, TOTAL	24	mg/L
MANGANESE, TOTAL	3.4	mg/L
MERCURY	ND (0.0002)	mg/L
MOLYBDENUM, TOTAL	ND (1)	mg/L
NICKEL, TOTAL	0.06	mg/L
AMMONIA NITROGEN	0.92	mg/L
NITRATE NITROGEN	3.4	mg/L
NITRITE NITROGEN	0.03	mg/L
OIL AND GREASE BY IR	<1	mg/L
POTASSIUM, TOTAL	3	mg/L
PURGEABLE AROMATICS		
BENZENE	ND (0.2)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	ND (0.07)	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	ND (0.05)	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L

 See last page for explanat.on of symbols.

GW-1

Client I.D.: 10
ERG Sample No.: 09/160590
Matrix: GROUND WATER

Parameter	Result	Units
TRICHLOROETHANE, 1,1,1-	ND (0.03)	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	ND (0.10)	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	ND (0.12)	ug/L
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	ND (0.03)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
SELENIUM, TOTAL	ND (0.001)	mg/L
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	21	mg/L
SOLIDS, TOTAL, DISSOLVED	515	mg/L
AVERAGE OF DUPLICATE RUNS		
SUSPENDED SOLIDS	43	mg/L
SULFATE, TURBIDIMETRIC METH.	57	mg/L
THALLIUM	ND (0.5)	mg/L
TITANIUM	ND (0.1)	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	0.6	mg/L

GW-6

Client I.D.: 11
ERG Sample No.: 09/160591
Matrix: GROUND WATER

Parameter	Result	Units
ACID FRACTION (PRIOR. POLLS. METH 625)		
CHLOROPHENOL, 2-	ND (10)	ug/L
NITROPHENOL, 2-	ND (10)	ug/L
PHENOL	ND (10)	ug/L
DIMETHYLPHENOL, 2,4-	ND (10)	ug/L
DICHLOROPHENOL, 2,4-	ND (10)	ug/L
TRICHLOROPHENOL, 2,4,6-	ND (10)	ug/L
CHLORO-3-METHYLPHENOL, 4-	ND (10)	ug/L
DINITROPHENOL, 2,4-	ND (50)	ug/L
METHYL-4,6-DINITROPHENOL, 2-	ND (50)	ug/L
PENTACHLOROPHENOL	ND (50)	ug/L

 See last page for explanation of symbols.

GW-6

Client I.D.: 11
ERG Sample No.: 09/160591
Matrix: GROUND WATER

Parameter	Result	Units
NITROPHENOL, 4-	ND (50)	ug/L
BICARBONATE ALKALINITY	200	mg/L
CARBONATE ALKALINITY	<1	mg/L
ALKALINITY, TOTAL	200	mg/L
AVERAGE OF DUPLICATE RUNS		
ALUMINUM, TOTAL	1.0	mg/L
ANTIMONY	ND (0.01)	mg/L
ARSENIC, TOTAL	0.006	mg/L
B/N FRACTION (PRIOR. POLLS METH. 625)		
ACENAPTHENE	ND (10)	ug/L
ACENAPTHYLENE	ND (10)	ug/L
ANTHRACENE	ND (10)	ug/L
BENZIDINE	ND (50)	ug/L
BENZO(A)ANTHRACENE	ND (10)	ug/L
BENZO(A)PYRENE	ND (10)	ug/L
BENZO(B)FLUORANTHENE	ND (10)	ug/L
BENZO(K)FLUORANTHENE	ND (10)	ug/L
BENZO(G,H,I)PERYLENE	ND (10)	ug/L
BIS(2-CHLOROETHYL)ETHER	ND (10)	ug/L
BIS(2-CHLORETHOXY)METHANE	ND (10)	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	ND (10)	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	ND (10)	ug/L
BROMOPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
BUTYL BENZYL PHTHALATE	ND (10)	ug/L
CHLORONAPHTHALENE, 2-	ND (10)	ug/L
CHLOROPHENYL PHENYL ETHER, 4-	ND (10)	ug/L
CHRYSENE	ND (10)	ug/L
DI-N-BUTYLPHTHALATE	ND (10)	ug/L
DIBENZO(A,H)ANTHRACENE	ND (10)	ug/L
DICHLOROBENZENE, 1,2-	ND (10)	ug/L
DICHLOROBENZENE, 1,3-	ND (10)	ug/L
DICHLOROBENZENE, 1,4-	ND (10)	ug/L
DICHLOROBENZIDINE, 3,3'-	ND (20)	ug/L
DIETHYLPHTHALATE	ND (10)	ug/L
DIMETHYLPHTHALATE	ND (10)	ug/L
DINITROTOLUENE 2,4-	ND (10)	ug/L
DINITROTOLUENE 2,6-	ND (10)	ug/L
DIOCTYLPHTHALATE	ND (10)	ug/L
DIPHENYLHYDRAZINE 1,2-	ND (20)	ug/L
FLUORANTHENE	ND (10)	ug/L
FLUORENE	ND (10)	ug/L
HEXACHLOROBENZENE	ND (10)	ug/L
HEXACHLOROBUTADIENE	ND (10)	ug/L
HEXACHLOROCYCLOPENTADIENE	ND (10)	ug/L
HEXACHLOROETHANE	ND (10)	ug/L
INDENO(1,2,3-CD)PYRENE	ND (10)	ug/L

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc.

Analytical Report

Project: A4849
Report Date: 10-10-86

Client I.D.: 11 GW-6
ERG Sample No.: 09/160591
Matrix: GROUND WATER

Parameter	Result	Units
ISOPHORONE	ND (10)	ug/L
N-NITROSODI-N-PROPYLAMINE	ND (10)	ug/L
N-NITROSODIMETHYLAMINE	ND (10)	ug/L
N-NITROSODIPHENYLAMINE	ND (10)	ug/L
NAPHTHALENE	ND (10)	ug/L
NITROBENZENE	ND (10)	ug/L
PHENANTHRENE	ND (10)	ug/L
PYRENE	ND (10)	ug/L
TRICHLOROBENZENE, 1,2,4-	ND (10)	ug/L
BARIUM, TOTAL	0.08	mg/L
BERYLLIUM, TOTAL	ND (0.01)	mg/L
BORON	ND (0.5)	mg/L
CADMIUM, TOTAL	ND (0.1)	mg/L
CALCIUM, TOTAL	57	mg/L
CHLORIDE	54	mg/L
CHROMIUM, TOTAL	ND (0.1)	mg/L
COBALT, TOTAL	ND (0.1)	mg/L
COPPER, TOTAL	ND (0.05)	mg/L
FLOURIDE, TOTAL	0.16	mg/L
IRON, TOTAL	1.3	mg/L
LEAD, TOTAL	ND (0.5)	mg/L
MAGNESIUM, TOTAL	35	mg/L
MANGANESE, TOTAL	ND (0.1)	mg/L
MERCURY	ND (0.0002)	mg/L
MOLYBDENUM, TOTAL	1.0	mg/L
NICKEL, TOTAL	ND (0.05)	mg/L
AMMONIA NITROGEN	1.6	mg/L
NITRATE NITROGEN	ND (0.01)	mg/L
NITRITE NITROGEN	ND (0.01)	mg/L
OIL AND GREASE BY IR	1.6	mg/L
POTASSIUM, TOTAL	1	mg/L
PURGEABLE AROMATICS		
BENZENE	0.58	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
ETHYLBENZENE	ND (0.2)	ug/L
TOLUENE	ND (0.2)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
PURGEABLES, 601		
CHLOROMETHANE	ND (0.08)	ug/L
BROMOMETHANE	ND (1.18)	ug/L
DICHLORODIFLUOROMETHANE	ND (1.81)	ug/L
VINYL CHLORIDE	ND (0.18)	ug/L
CHLOROETHANE	ND (0.52)	ug/L
METHYLENE CHLORIDE	ND (0.25)	ug/L
TRICHLOROFLUOROMETHANE	ND (0.50)	ug/L

 See last page for explanation of symbols.

Client I.D.: 11 GW-6
ERG Sample No.: 09/160591
Matrix: GROUND WATER

Parameter	Result	Units
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	ND (0.07)	ug/L
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ug/L
CHLOROFORM	ND (0.05)	ug/L
DICHLORETHANE, 1,2-	ND (0.03)	ug/L
TRICHLOROETHANE, 1,1,1-	ND (0.03)	ug/L
CARBON TETRACHLORIDE	ND (0.12)	ug/L
BROMODICHLOROMETHANE	ND (0.10)	ug/L
DICHLOROPROPANE, 1,2-	ND (0.04)	ug/L
TRANS-1,3-DICHLOROPROPENE	ND (0.34)	ug/L
TRICHLOROETHYLENE	ND (0.12)	ug/L
DIBROMOCHLOROMETHANE	ND (0.09)	ug/L
TRICHLOROETHANE, 1,1,2-	ND (0.02)	ug/L
CIS-1,3-DICHLORPROPENE	ND (0.20)	ug/L
CHLOROETHYLVINYL ETHER, 2-	ND (0.13)	ug/L
BROMOFORM	ND (0.20)	ug/L
TETRACHLOROETHANE, 1,1,2,2-	ND (0.03)	ug/L
TETRACHLOROETHYLENE	ND (0.03)	ug/L
CHLOROBENZENE	ND (0.25)	ug/L
DICHLOROBENZENE, 1,3-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,2-	ND (0.4)	ug/L
DICHLOROBENZENE, 1,4-	ND (0.3)	ug/L
AVERAGE OF DUPLICATE RUNS		
SELENIUM, TOTAL	<0.001	mg/L
SILVER, TOTAL	ND (0.05)	mg/L
SODIUM	13	mg/L
SOLIDS, TOTAL, DISSOLVED	320	mg/L
SUSPENDED SOLIDS	8.2	mg/L
SULFATE, TURBIDIMETRIC METH.	100	mg/L
AVERAGE OF DUPLICATE RUNS		
THALLIUM	ND (0.5)	mg/L
TITANIUM	0.1	mg/L
VANADIUM	ND (0.05)	mg/L
ZINC	0.3	mg/L

SD-Sample damaged
FR-See field report for result
SR-See attached report
NA-Result not applicable to test

ND-Nondetected, Detection limit in ()
<-Positive result at an unquantifiable concentration below indicated level

Thank you for your business. Page 16 Last Page

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TMA ERG
Thermo Analytical Inc.

Analytical Report

Project A4837C
Report Date 10-15-86

~~RECEIVED OCT 1 3 1986~~

117 N. FIRST
ANN ARBOR, MICHIGAN 48104 (313) 662-3104

Client P.O. CONTRACT
Report 22008

Samples Recvd: 10-03-86
Refer Questions To:
JOE HNATOW

Client
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
8400 WESTPARK DRIVE
MC LEAN, VA 22102

Approved: Joseph A. Hnatow

***
Residual Samples Will Be Held
TWO WEEKS
***

Client I.D.: 01
ERG Sample No.: 10/160812
Matrix: GROUND WATER

Parameter	Result	Units
PURGEABLE AROMATICS		
BENZENE	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,4-	NA	
ETHYLBENZENE	NA	
TOLUENE	NA	
CHLOROBENZENE	NA	
PURGEABLES, 601		
CHLOROMETHANE	NA	
BROMOMETHANE	NA	
DICHLORODIFLUOROMETHANE	NA	
VINYL CHLORIDE	NA	
CHLOROETHANE	NA	
METHYLENE CHLORIDE	NA	
TRICHLOROFLUOROMETHANE	NA	
DICHLOROETHYLENE, 1,1-	NA	
DICHLOROETHANE, 1,1-	NA	
TRANS-1,2-DICHLOROETHYLENE	NA	
CHLOROFORM	NA	
DICHLORETHANE, 1,2-	NA	
TRICHLOROETHANE, 1,1,1-	NA	
CARBON TETRACHLORIDE	NA	
BROMODICHLOROMETHANE	NA	
DICHLOROPROPANE, 1,2-	NA	
TRANS-1,3-DICHLOROPROPENE	NA	
TRICHLOROETHYLENE	0.91	ug/L
DIBROMOCHLOROMETHANE	NA	
TRICHLOROETHANE, 1,1,2-	NA	
CIS-1,3-DICHLORPROPENE	NA	
CHLOROETHYLVINYL ETHER, 2-	NA	
BROMOFORM	NA	
TETRACHLOROETHANE, 1,1,2,2-	NA	
TETRACHLOROETHYLENE	NA	
CHLOROBENZENE	NA	

 See last page for explanation of symbols.

Client I.D.: 01
ERG Sample No.: 10/160812
Matrix: GROUND WATER

Parameter	Result	Units
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,4-	NA	

Comments: 1,1,1-TRICHLOROETHANE AND TRICHLOROETHYLENE COELUTE. RESULTS COULD BE EITHER ONE OR BOTH ANALYTES.

Client I.D.: 02
ERG Sample No.: 10/160813
Matrix: GROUND WATER

Parameter	Result	Units
PURGEABLE AROMATICS		
BENZENE	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,4-	NA	
ETHYLBENZENE	NA	
TOLUENE	NA	
CHLOROBENZENE	NA	
PURGEABLES, 601		
CHLOROMETHANE	NA	
BROMOMETHANE	NA	
DICHLORODIFLUOROMETHANE	NA	
VINYL CHLORIDE	NA	
CHLOROETHANE	NA	
METHYLENE CHLORIDE	NA	
TRICHLOROFLUOROMETHANE	NA	
DICHLOROETHYLENE, 1,1-	NA	
DICHLOROETHANE, 1,1-	NA	
TRANS-1,2-DICHLOROETHYLENE	NA	
CHLOROFORM	NA	
DICHLORETHANE, 1,2-	NA	
TRICHLOROETHANE, 1,1,1-	NA	
CARBON TETRACHLORIDE	NA	
BROMODICHLOROMETHANE	NA	
DICHLOROPROPANE, 1,2-	NA	
TRANS-1,3-DICHLOROPROPENE	NA	
TRICHLOROETHYLENE	1.1	ug/L
DIBROMOCHLOROMETHANE	NA	
TRICHLOROETHANE, 1,1,2-	NA	
CIS-1,3-DICHLORPROPENE	NA	
CHLOROETHYLVINYL ETHER, 2-	NA	
BROMOFORM	NA	
TETRACHLOROETHANE, 1,1,2,2-	NA	
TETRACHLOROETHYLENE	NA	
CHLOROBENZENE	NA	

 See last page for explanation of symbols.

Client I.D.: 02
ERG Sample No.: 10/160813
Matrix: GROUND WATER

Parameter	Result	Units
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,4-	NA	

Comments: 1,1,1-TRICHLOROETHANE AND TRICHLOROETHYLENE COELUTE. RESULTS COULD BE EITHER ONE OR BOTH ANALYTES.

Client I.D.: 03
ERG Sample No.: 10/160814
Matrix: GROUND WATER

Parameter	Result	Units
PURGEABLE AROMATICS		
BENZENE	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,4-	NA	
ETHYLBENZENE	NA	
TOLUENE	NA	
CHLOROBENZENE	NA	
PURGEABLES, 601		
CHLOROMETHANE	NA	
BROMOMETHANE	NA	
DICHLORODIFLUOROMETHANE	NA	
VINYL CHLORIDE	NA	
CHLOROETHANE	NA	
METHYLENE CHLORIDE	NA	
TRICHLOROFLUOROMETHANE	NA	
DICHLOROETHYLENE, 1,1-	NA	
DICHLOROETHANE, 1,1-	NA	
TRANS-1,2-DICHLOROETHYLENE	NA	
CHLOROFORM	NA	
DICHLORETHANE, 1,2-	NA	
TRICHLOROETHANE, 1,1,1-	NA	
CARBON TETRACHLORIDE	NA	
BROMODICHLOROMETHANE	NA	
DICHLOROPROPANE, 1,2-	NA	
TRANS-1,3-DICHLOROPROPENE	NA	
TRICHLOROETHYLENE	ND (0.12)	ug/L
DIBROMOCHLOROMETHANE	NA	
TRICHLOROETHANE, 1,1,2-	NA	
CIS-1,3-DICHLORPROPENE	NA	
CHLOROETHYLVINYL ETHER, 2-	NA	
BROMOFORM	NA	
TETRACHLOROETHANE, 1,1,2,2-	NA	
TETRACHLOROETHYLENE	NA	
CHLOROBENZENE	NA	

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc. **Analytical Report**

Project A4837C
Report Date: 10-15-86

Client I.D.: 03
ERG Sample No.: 10/160814
Matrix: GROUND WATER

Parameter	Result	Units
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,4-	NA	

Comments: 1,1,1-TRICHLOROETHANE AND TRICHLOROETHYLENE COELUTE. RESULTS COULD BE EITHER ONE OR BOTH ANALYTES.

Client I.D.: 04
ERG Sample No.: 10/160815
Matrix: GROUND WATER

Parameter	Result	Units
PURGEABLE AROMATICS		
BENZENE	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,4-	NA	
ETHYLBENZENE	NA	
TOLUENE	NA	
CHLOROBENZENE	NA	
PURGEABLES, 601		
CHLOROMETHANE	NA	
BROMOMETHANE	NA	
DICHLORODIFLUOROMETHANE	NA	
VINYL CHLORIDE	NA	
CHLOROETHANE	NA	
METHYLENE CHLORIDE	NA	
TRICHLOROFLUOROMETHANE	NA	
DICHLOROETHYLENE, 1,1-	NA	
DICHLOROETHANE, 1,1-	NA	
TRANS-1,2-DICHLOROETHYLENE	NA	
CHLOROFORM	NA	
DICHLORETHANE, 1,2-	NA	
TRICHLOROETHANE, 1,1,1-	NA	
CARBON TETRACHLORIDE	NA	
BROMODICHLOROMETHANE	NA	
DICHLOROPROPANE, 1,2-	NA	
TRANS-1,3-DICHLOROPROPENE	NA	
TRICHLOROETHYLENE	0.34	ug/L
DIBROMOCHLOROMETHANE	NA	
TRICHLOROETHANE, 1,1,2-	NA	
CIS-1,3-DICHLORPROPENE	NA	
CHLOROETHYLVINYL ETHER, 2-	NA	
BROMOFORM	NA	
TETRACHLOROETHANE, 1,1,2,2-	NA	
TETRACHLOROETHYLENE	NA	
CHLOROBENZENE	NA	

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc. **Analytical Report**

Project: A4837C
Report Date: 10-15-86

Client I.D.: 04
ERG Sample No.: 10/160815
Matrix: GROUND WATER

Parameter	Result	Units
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,4-	NA	

Comments: 1,1,1-TRICHLOROETHANE AND TRICHLOROETHYLENE COELUTE. RESULTS COULD BE EITHER ONE OR BOTH ANALYTES.

Client I.D.: 05
ERG Sample No.: 10/160816
Matrix: GROUND WATER

Parameter	Result	Units
PURGEABLE AROMATICS		
BENZENE	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,4-	NA	
ETHYLBENZENE	NA	
TOLUENE	NA	
CHLOROBENZENE	NA	
PURGEABLES, 601		
CHLOROMETHANE	NA	
BROMOMETHANE	NA	
DICHLORODIFLUOROMETHANE	NA	
VINYL CHLORIDE	NA	
CHLOROETHANE	NA	
METHYLENE CHLORIDE	NA	
TRICHLOROFLUOROMETHANE	NA	
DICHLOROETHYLENE, 1,1-	ND (0.13)	ug/L
DICHLOROETHANE, 1,1-	8.8	ug/L
TRANS-1,2-DICHLOROETHYLENE	NA	
CHLOROFORM	NA	
DICHLORETHANE, 1,2-	NA	
TRICHLOROETHANE, 1,1,1-	NA	
CARBON TETRACHLORIDE	NA	
BROMODICHLOROMETHANE	NA	
DICHLOROPROPANE, 1,2-	NA	
TRANS-1,3-DICHLOROPROPENE	NA	
TRICHLOROETHYLENE	0.13	ug/L
DIBROMOCHLOROMETHANE	NA	
TRICHLOROETHANE, 1,1,2-	NA	
CIS-1,3-DICHLORPROPENE	NA	
CHLOROETHYLVINYL ETHER, 2-	NA	
BROMOFORM	NA	
TETRACHLOROETHANE, 1,1,2,2-	NA	
TETRACHLOROETHYLENE	0.12	ug/L
CHLOROBENZENE	NA	

 See last page for explanation of symbols.

Client I.D.: 05
ERG Sample No.: 10/160816
Matrix: GROUND WATER

Parameter	Result	Units
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,4-	NA	

Comments: 1,1-DICHLOROETHANE AND CHLOROFORM COELUTE. RESULTS COULD BE EITHER ONE OR BOTH ANALYTES. BROMODICHLOROETHANE AND TETRACHLOROETHYLENE COELUTE. RESULTS COULD BE ONE OR BOTH ANALYTES. 1 1 1-TRICHLOROETHANE AND TRICHLOROETHYLENE COELUTE. RESULTS COULD BE EITHER ONE OR BOTH ANALYTES.

Client I.D.: 06
ERG Sample No.: 10/160817
Matrix: GROUND WATER

Parameter	Result	Units
PURGEABLE AROMATICS		
BENZENE	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,4-	NA	
ETHYLBENZENE	NA	
TOLUENE	NA	
CHLOROBENZENE	NA	
PURGEABLES, 601		
CHLOROMETHANE	NA	
BROMOMETHANE	NA	
DICHLORODIFLUOROMETHANE	NA	
VINYL CHLORIDE	NA	
CHLOROETHANE	NA	
METHYLENE CHLORIDE	NA	
TRICHLOROFLUOROMETHANE	NA	
DICHLOROETHYLENE, 1,1-	NA	
DICHLOROETHANE, 1,1-	NA	
TRANS-1,2-DICHLOROETHYLENE	NA	
CHLOROFORM	NA	
DICHLORETHANE, 1,2-	NA	
TRICHLOROETHANE, 1,1,1-	NA	
CARBON TETRACHLORIDE	NA	
BROMODICHLOROMETHANE	NA	
DICHLOROPROPANE, 1,2-	NA	
TRANS-1,3-DICHLOROPROPENE	NA	
TRICHLOROETHYLENE	ND (0.12)	ug/L
DIBROMOCHLOROMETHANE	NA	
TRICHLOROETHANE, 1,1,2-	NA	
CIS-1,3-DICHLORPROPENE	NA	
CHLOROETHYLVINYL ETHER, 2-	NA	
BROMOFORM	NA	

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc.

Analytical Report

Project: A4837C
Report Date: 10-15-86

Client I.D.: 06
ERG Sample No.: 10/160817
Matrix: GROUND WATER

Parameter	Result	Units
TETRACHLOROETHANE, 1,1,2,2-	NA	
TETRACHLOROETHYLENE	NA	
CHLOROBENZENE	NA	
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,4-	NA	

Comments: 1,1,1-TRICHLOROETHANE AND TRICHLOROETHYLENE COELUTE. RESULTS COULD BE EITHER ONE OR BOTH ANALYTES.

SD-Sample damaged
FR-See field report for result
SR-See attached report
NA-Result not applicable to test

ND-Nondetected, Detection limit in ()
<-Positive result at an unquantifiable concentration below indicated level

Thank you for your business.

TMA ERG
Thermo Analytical Inc. **Analytical Report**

Project: A4849C
Report Date: 10-15-86

117 N. FIRST
ANN ARBOR, MICHIGAN 48104 (313) 662-3104

Client P.O. CONTRACT
Report: 22006

Samples Recvd: 10-03-86
Refer Questions To:
JOE HNATOW

Client:
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
8400 WESTPARK DRIVE
MC LEAN, VA 22102

Approved: Joseph A. Hnatow

***
Residual Samples Will Be Held
TWO WEEKS
***

Client I.D.: 07
ERG Sample No.: 10/160809
Matrix: GROUND WATER

Parameter	Result	Units
PURGEABLE AROMATICS		
BENZENE	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,4-	NA	
ETHYLBENZENE	NA	
TOLUENE	NA	
CHLOROBENZENE	NA	
PURGEABLES, 601		
CHLOROMETHANE	NA	
BROMOMETHANE	NA	
DICHLORODIFLUOROMETHANE	NA	
VINYL CHLORIDE	NA	
CHLOROETHANE	NA	
METHYLENE CHLORIDE	NA	
TRICHLOROFLUOROMETHANE	NA	
DICHLOROETHYLENE, 1,1-	NA	
DICHLOROETHANE, 1,1-	NA	
TRANS-1,2-DICHLOROETHYLENE	NA	
CHLOROFORM	NA	
DICHLORETHANE, 1,2-	NA	
TRICHLOROETHANE, 1,1,1-	NA	
CARBON TETRACHLORIDE	NA	
BROMODICHLOROMETHANE	NA	
DICHLOROPROPANE, 1,2-	NA	
TRANS-1,3-DICHLOROPROPENE	NA	
TRICHLOROETHYLENE	0.27	ug/L
DIBROMOCHLOROMETHANE	NA	
TRICHLOROETHANE, 1,1,2-	NA	
CIS-1,3-DICHLORPROPENE	NA	
CHLOROETHYLVINYL ETHER, 2-	NA	
BROMOFORM	NA	
TETRACHLOROETHANE, 1,1,2,2-	NA	
TETRACHLOROETHYLENE	NA	
CHLOROBENZENE	NA	

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc. **Analytical Report**

Project A4849C
Report Date: 10-15-86

Client I.D.: 07
ERG Sample No.: 10/160809
Matrix: GROUND WATER

Parameter	Result	Units
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,4-	NA	

Comments: 1,1,1-TRICHLOROETHANE AND TRICHLOROETHYLENE COELUTE. RESULTS COULD BE EITHER ONE OR BOTH ANALYTES.

Client I.D.: 08
ERG Sample No.: 10/160810
Matrix: GROUND WATER

Parameter	Result	Units
PURGEABLE AROMATICS		
BENZENE	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,4-	NA	
ETHYLBENZENE	NA	
TOLUENE	NA	
CHLOROBENZENE	NA	
PURGEABLES, 601		
CHLOROMETHANE	NA	
BROMOMETHANE	NA	
DICHLORODIFLUOROMETHANE	NA	
VINYL CHLORIDE	NA	
CHLOROETHANE	NA	
METHYLENE CHLORIDE	NA	
TRICHLOROFLUOROMETHANE	NA	
DICHLOROETHYLENE, 1,1-	NA	
DICHLOROETHANE, 1,1-	NA	
TRANS-1,2-DICHLOROETHYLENE	NA	
CHLOROFORM	NA	
DICHLORETHANE, 1,2-	NA	
TRICHLOROETHANE, 1,1,1-	NA	
CARBON TETRACHLORIDE	NA	
BROMODICHLOROMETHANE	NA	
DICHLOROPROPANE, 1,2-	NA	
TRANS-1,3-DICHLOROPROPENE	NA	
TRICHLOROETHYLENE	0.60	ug/L
DIBROMOCHLOROMETHANE	NA	
TRICHLOROETHANE, 1,1,2-	NA	
CIS-1,3-DICHLORPROPENE	NA	
CHLOROETHYLVINYL ETHER, 2-	NA	
BROMOFORM	NA	
TETRACHLOROETHANE, 1,1,2,2-	NA	
TETRACHLOROETHYLENE	NA	
CHLOROBENZENE	NA	

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc.

Analytical Report

Project: A4849C
Report Date: 10-15-86

Client I.D.: 08
ERG Sample No.: 10/160810
Matrix: GROUND WATER

Parameter	Result	Units
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,4-	NA	

Comments: 1,1,1-TRICHLOROETHANE AND TRICHLOROETHYLENE COELUTE. RESULTS COULD BE EITHER ONE OR BOTH ANALYTES.

Client I.D.: 11
ERG Sample No.: 10/160811
Matrix: GROUND WATER

Parameter	Result	Units
PURGEABLE AROMATICS		
BENZENE	ND (0.20)	ug/L
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,4-	NA	
ETHYLBENZENE	NA	
TOLUENE	NA	
CHLOROBENZENE	NA	
PURGEABLES, 601		
CHLOROMETHANE	NA	
BROMOMETHANE	NA	
DICHLORODIFLUOROMETHANE	NA	
VINYL CHLORIDE	NA	
CHLOROETHANE	NA	
METHYLENE CHLORIDE	NA	
TRICHLOROFLUOROMETHANE	NA	
DICHLOROETHYLENE, 1,1-	NA	
DICHLOROETHANE, 1,1-	NA	
TRANS-1,2-DICHLOROETHYLENE	NA	
CHLOROFORM	NA	
DICHLORETHANE, 1,2-	NA	
TRICHLOROETHANE, 1,1,1-	NA	
CARBON TETRACHLORIDE	NA	
BROMODICHLOROMETHANE	NA	
DICHLOROPROPANE, 1,2-	NA	
TRANS-1,3-DICHLOROPROPENE	NA	
TRICHLOROETHYLENE	NA	
DIBROMOCHLOROMETHANE	NA	
TRICHLOROETHANE, 1,1,2-	NA	
CIS-1,3-DICHLORPROPENE	NA	
CHLOROETHYLVINYL ETHER, 2-	NA	
BROMOFORM	NA	
TETRACHLOROETHANE, 1,1,2,2-	NA	
TETRACHLOROETHYLENE	NA	
CHLOROBENZENE	NA	

 See last page for explanation of symbols.

TMA ERG
Thermo Analytical Inc.

Analytical Report

Project: A4847C
Report Date: 10-15-86

Client I.D.: 11
ERG Sample No.: 10/160811
Matrix: GROUND WATER

Parameter	Result	Units
DICHLOROBENZENE, 1,3-	NA	
DICHLOROBENZENE, 1,2-	NA	
DICHLOROBENZENE, 1,4-	NA	

SD-Sample damaged
FR-See field report for result
SR-See attached report
NA-Result not applicable to test

ND-Nondetected, Detection limit in ()
<-Positive result at an unquantifiable concentration below indicated level

Thank you for your business.

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT

Date of Report: 01-may-1987

Samples will be held for two weeks
after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Release Approval

Laboratory Identification	86329006	86329007	86329008	86329009	86329010		86329011
Client Identification	FS-A-1	FS-A-2	FS-A-3	FS-A-4	FS-B-1 *		FS-B-2
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL		SOIL
					UG/KG		
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS							
1,2,4-TRICHLOROBENZENE	NR	NR	NR	NR	150	U	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	300	U	NR
1,2-DIPHENYLHYDRAZINE	NR	NR	NR	NR	150	U	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	150	U	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	150	U	NR
2,4,6-TRICHLOROPHENOL	NR	NR	NR	NR	150	U	NR
2,4-DICHLOROPHENOL	NR	NR	NR	NR	150	U	NR
2,4-DIMETHYLPHENOL	NR	NR	NR	NR	150	U	NR
2,4-DINITROPHENOL	NR	NR	NR	NR	1012	U	NR
2,4-DINITROTOLUENE	NR	NR	NR	NR	300	U	NR
2,6-DINITROTOLUENE	NR	NR	NR	NR	300	U	NR
2-CHLORONAPHTHALENE	NR	NR	NR	NR	150	U	NR
2-CHLOROPHENOL	NR	NR	NR	NR	150	U	NR
2-NITROPHENOL	NR	NR	NR	NR	450	U	NR
3,3'-DICHLOROBENZIDENE	NR	NR	NR	NR	300	U	NR
4,6-DINITRO-2-METHYLPHENOL	NR	NR	NR	NR	1500	U	NR
4-BROMOPHENYL PHENYL ETHER	NR	NR	NR	NR	150	U	NR
4-CHLORO-3-METHYLPHENOL	NR	NR	NR	NR	750	U	NR
4-CHLOROPHENYL PHENYL ETHER	NR	NR	NR	NR	150	U	NR
4-NITROPHENOL	NR	NR	NR	NR	750	U	NR
ACENAPHTHENE	NR	NR	NR	NR	75	U	NR
ACENAPHTHYLENE	NR	NR	NR	NR	75	U	NR
ANTHRACENE	NR	NR	NR	NR	75	U	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329006	86329007	86329008	86329009	86329010		86329011
Client Identification	FS-A-1	FS-A-2	FS-A-3	FS-A-4	FS-B-1 *		FS-B-2
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL		SOIL
BENZIDINE	NR	NR	NR	NR	1125	U	NR
BENZO(A)ANTHRACENE	NR	NR	NR	NR	150	U	NR
BENZO(A)PYRENE	NR	NR	NR	NR	75	U	NR
BENZO(B)FLUORANTHENE	NR	NR	NR	NR	75	U	NR
BENZO(G,H,I)PERYLENE	NR	NR	NR	NR	150	U	NR
BENZO(K)FLUORANTHENE	NR	NR	NR	NR	75	U	NR
BENZYL BUTYL PHTHALATE	NR	NR	NR	NR	150	U	NR
BIS(2-CHLOROETHOXY)METHANE	NR	NR	NR	NR	150	U	NR
BIS(2-CHLOROETHYL)ETHER	NR	NR	NR	NR	150	U	NR
BIS(2-CHLOROISOPROPYL)ETHER	NR	NR	NR	NR	150	U	NR
BIS(2-ETHYLHEXYL)PHTHALATE	NR	NR	NR	NR	150	U	NR
CHRYSENE	NR	NR	NR	NR	75	U	NR
DI-N-BUTYL PHTHALATE	NR	NR	NR	NR	60	U	NR
DI-N-OCTYL PHTHALATE	NR	NR	NR	NR	110		NR
DIBENZO(A,H)ANTHRACENE	NR	NR	NR	NR	75	U	NR
DIETHYL PHTHALATE	NR	NR	NR	NR	75	U	NR
DIMETHYL PHTHALATE	NR	NR	NR	NR	75	U	NR
FLUORENE	NR	NR	NR	NR	75	U	NR
FLUOROANTHENE	NR	NR	NR	NR	75	U	NR
HEXACHLOROBENZENE	NR	NR	NR	NR	150	U	NR
HEXACHLOROBUTADIENE	NR	NR	NR	NR	150	U	NR
HEXACHLOROCYCLOPENTADIENE	NR	NR	NR	NR	750	U	NR
HEXACHLOROETHANE	NR	NR	NR	NR	300	U	NR
INDENO(1,2,3-C,D)PYRENE	NR	NR	NR	NR	75	U	NR
ISOPHORONE	NR	NR	NR	NR	150	U	NR
N-NITROSODIPHENYLAMINE	NR	NR	NR	NR	150	U	NR
N-NITROSODIPROPYLAMINE	NR	NR	NR	NR	750	U	NR
NAPHTHALENE	NR	NR	NR	NR	75	U	NR
NITROBENZENE	NR	NR	NR	NR	300	U	NR
PENTACHLOROPHENOL	NR	NR	NR	NR	750	U	NR

[redacted]otes[redacted]Comm[redacted]n th[redacted]al P[redacted]f th[redacted]ort.[redacted]

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	86329006	86329007	86329008	86329009	86329010	86329011
Client Identification	FS-A-1	FS-A-2	FS-A-3	FS-A-4	FS-B-1*	FS-B-2
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PHENANTHRENE	NR	NR	NR	NR	75 U	NR
PHENOL	NR	NR	NR	NR	150 U	NR
PYRENE	NR	NR	NR	NR	75 U	NR
	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
VOLATILES, PRIORITY POLLUTANTS						
1,1,1-TRICHLOROETHANE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
1,1,2,2-TETRACHLOROETHANE	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
1,1,2-TRICHLOROETHANE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-DICHLOROETHANE	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
1,1-DICHLOROETHENE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,2-DICHLOROETHANE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,2-DICHLOROPROPANE	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
2-CHLOROETHYL VINYL ETHER	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
BROMODICHLOROMETHANE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
BROMOFORM	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
BROMOMETHANE	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
CARBON TETRACHLORIDE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CHLOROBENZENE	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
CHLORODIBROMOMETHANE	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
CHLOROETHANE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
CHLOROFORM	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
CHLOROMETHANE	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
CIS-1,3-DICHLOROPROPENE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYL BENZENE	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
METHYLENE CHLORIDE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
TETRACHLOROETHENE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
TOLUENE	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
TRANS-1,2-DICHLOROETHENE	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
TRANS-1,3-DICHLOROPROPENE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	86329006	86329007	86329008	86329009	86329010	86329011
Client Identification	FS-A-1	FS-A-2	FS-A-3	FS-A-4	FS-B-1*	FS-B-2
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
TRICHLOROETHENE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
VINYL CHLORIDE	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329006	86329007	86329008	86329009	86329010	86329011
Client Identification	FS-A-1	FS-A-2	FS-A-3	FS-A-4	FS-B-1 *	FS-B-2
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
LEAD (TOTAL)	8.8	9.1	11	12	9.6	8.6

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329006	86329007	86329008	86329009	86329010	86329011
Client Identification	FS-A-1	FS-A-2	FS-A-3	FS-A-4	FS-B-1 *	FS-B-2
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	89	29 U	29 U	30 U	31 U	30 U
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
MOISTURE, PERCENT	22	24	17	18	22	21

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329012	86329013		86329014		86329015	86329016		86329017	
Client Identification	FS-B-3	FS-C-1 *		FS-C-2 *		FS-C-3	FS-D-1*		FS-D-2 *	
Matrix Type	SOIL	SOIL		SOIL		SOIL	SOIL		SOIL	
		UG/KG		UG/KG			UG/KG		UG/KG	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS										
1,2,4-TRICHLOROBENZENE	NR	150	U	150	U	NR	150	U	150	U
1,2-DICHLOROBENZENE	NR	300	U	300	U	NR	300	U	300	U
1,2-DIPHENYLHYDRAZINE	NR	150	U	150	U	NR	150	U	150	U
1,3-DICHLOROBENZENE	NR	150	U	150	U	NR	150	U	150	U
1,4-DICHLOROBENZENE	NR	150	U	150	U	NR	150	U	150	U
2,4,6-TRICHLOROPHENOL	NR	150	U	150	U	NR	150	U	150	U
2,4-DICHLOROPHENOL	NR	150	U	150	U	NR	150	U	150	U
2,4-DIMETHYLPHENOL	NR	150	U	150	U	NR	150	U	150	U
2,4-DINITROPHENOL	NR	1012	U	1012	U	NR	1012	U	1012	U
2,4-DINITROTOLUENE	NR	300	U	300	U	NR	300	U	300	U
2,6-DINITROTOLUENE	NR	300	U	300	U	NR	300	U	300	U
2-CHLORONAPHTHALENE	NR	150	U	150	U	NR	150	U	150	U
2-CHLOROPHENOL	NR	150	U	150	U	NR	150	U	150	U
2-NITROPHENOL	NR	450	U	450	U	NR	450	U	450	U
3,3'-DICHLOROBENZIDENE	NR	300	U	300	U	NR	300	U	300	U
4,6-DINITRO-2-METHYLPHENOL	NR	1500	U	1500	U	NR	1500	U	1500	U
4-BROMOPHENYL PHENYL ETHER	NR	150	U	150	U	NR	150	U	150	U
4-CHLORO-3-METHYLPHENOL	NR	750	U	750	U	NR	750	U	750	U
4-CHLOROPHENYL PHENYL ETHER	NR	150	U	150	U	NR	150	U	150	U
4-NITROPHENOL	NR	750	U	750	U	NR	750	U	750	U
ACENAPHTHENE	NR	75	U	75	U	NR	75	U	75	U
ACENAPHTHYLENE	NR	75	U	310		NR	75	U	75	U
ANTHRACENE	NR	75	U	250		NR	75	U	75	U
BENZIDINE	NR	1125	U	1125	U	NR	1125	U	1125	U
BENZO(A)ANTHRACENE	NR	150	U	600		NR	150	U	150	U
BENZO(A)PYRENE	NR	92		540		NR	75	U	110	
BENZO(B)FLUORANTHENE	NR	75	U	330		NR	75	U	110	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329012	86329013		86329014		86329015	86329016		86329017	
Client Identification	FS-B-3	FS-C-1 *		FS-C-2 *		FS-C-3	FS-D-1 *		FS-D-2*	
Matrix Type	SOIL	SOIL		SOIL		SOIL	SOIL		SOIL	
BENZO(G,H,I)PERYLENE	NR	150	U	230		NR	150	U	150	U
BENZO(K)FLUORANTHENE	NR	210		390		NR	75	U	75	U
BENZYL BUTYL PHTHALATE	NR	150	U	150	U	NR	150	U	150	U
BIS(2-CHLOROETHOXY)METHANE	NR	150	U	150	U	NR	150	U	150	U
BIS(2-CHLOROETHYL)ETHER	NR	150	U	150	U	NR	150	U	150	U
BIS(2-CHLOROISOPROPYL)ETHER	NR	150	U	150	U	NR	150	U	150	U
BIS(2-ETHYLHEXYL)PHTHALATE	NR	150	U	170		NR	150	U	150	U
CHRYSENE	NR	110		520		NR	75	U	75	U
DI-N-BUTYL PHTHALATE	NR	84		110		NR	60	U	140	
DI-N-OCTYL PHTHALATE	NR	75	U	75	U	NR	1500		75	U
DIBENZO(A,H)ANTHRACENE	NR	75	U	75	U	NR	75	U	75	U
DIETHYL PHTHALATE	NR	75	U	75	U	NR	75	U	75	U
DIMETHYL PHTHALATE	NR	75	U	75	U	NR	75	U	75	U
FLUORENE	NR	75	U	75	U	NR	75	U	75	U
FLUOROANTHENE	NR	130		1700		NR	75	U	270	
HEXACHLOROBENZENE	NR	150	U	150	U	NR	150	U	150	U
HEXACHLOROBUTADIENE	NR	150	U	150	U	NR	150	U	150	U
HEXACHLOROCYCLOPENTADIENE	NR	750	U	750	U	NR	750	U	750	U
HEXACHLOROETHANE	NR	300	U	300	U	NR	300	U	300	U
INDENO(1,2,3-C,D)PYRENE	NR	75	U	210		NR	75	U	75	U
ISOPHORONE	NR	150	U	150	U	NR	150	U	150	U
N-NITROSODIPHENYLAMINE	NR	150	U	150	U	NR	150	U	150	U
N-NITROSODIPROPYLAMINE	NR	750	U	750	U	NR	750	U	750	U
NAPHTHALENE	NR	75	U	75	U	NR	75	U	75	U
NITROBENZENE	NR	300	U	300	U	NR	300	U	300	U
PENTACHLOROPHENOL	NR	750	U	750	U	NR	750	U	750	U
PHENANTHRENE	NR	75	U	820		NR	75	U	75	U
PHENOL	NR	150	U	150	U	NR	150	U	150	U
PYRENE	NR	120		1100		NR	75	U	180	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329012	86329013	86329014	86329015	86329016	86329017
Client Identification	FS-B-3	FS-C-1*	FS-C-2 *	FS-C-3	FS-D-1 *	FS-D-2*
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
VOLATILES, PRIORITY POLLUTANTS						
1,1,1-TRICHLOROETHANE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
1,1,2,2-TETRACHLOROETHANE	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
1,1,2-TRICHLOROETHANE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-DICHLOROETHANE	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
1,1-DICHLOROETHENE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,2-DICHLOROETHANE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,2-DICHLOROPROPANE	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
2-CHLOROETHYL VINYL ETHER	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
BROMODICHLOROMETHANE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
BROMOFORM	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
BROMOMETHANE	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
CARBON TETRACHLORIDE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CHLOROBENZENE	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
CHLORODIBROMOMETHANE	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
CHLOROETHANE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
CHLOROFORM	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
CHLOROMETHANE	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
CIS-1,3-DICHLOROPROPENE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYL BENZENE	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
METHYLENE CHLORIDE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
TETRACHLOROETHENE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
TOLUENE	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
TRANS-1,2-DICHLOROETHENE	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
TRANS-1,3-DICHLOROPROPENE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
TRICHLOROETHENE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329012	86329013	86329014	86329015	86329016	86329017
Client Identification	FS-B-3	FS-C-1*	FS-C-2 *	FS-C-3	FS-D-1*	FS-D-2*
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
VINYL CHLORIDE	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U
	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
LEAD (TOTAL)	7.7	11	14	6.9	11	15

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Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329012	86329013	86329014	86329015	86329016	86329017
Client Identification	FS-B-3	FS-C-1 *	FS-C-2*	FS-C-3	FS-D-1*	FS-D-2*
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	33 U	27 U	250	30 U	26 U	130
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
MOISTURE, PERCENT	25	21	18	20	5.5	35

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329018		86329019		86329020		86329021		86329022		86329023	
Client Identification	FS-D-3		FS-E-1 *		FS-E-2 *		FS-E-3		FS-F-1*		FS-F-2 *	
Matrix Type	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
			UG/KG		UG/KG				UG/KG		UG/KG	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS												
1,2,4-TRICHLOROBENZENE	NR		150	U	150	U	NR		150	U	150	U
1,2-DICHLOROBENZENE	NR		300	U	300	U	NR		300	U	300	U
1,2-DIPHENYLHYDRAZINE	NR		150	U	150	U	NR		150	U	150	U
1,3-DICHLOROBENZENE	NR		150	U	150	U	NR		150	U	150	U
1,4-DICHLOROBENZENE	NR		150	U	150	U	NR		150	U	150	U
2,4,6-TRICHLOROPHENOL	NR		150	U	150	U	NR		150	U	150	U
2,4-DICHLOROPHENOL	NR		150	U	150	U	NR		150	U	150	U
2,4-DIMETHYLPHENOL	NR		150	U	150	U	NR		150	U	150	U
2,4-DINITROPHENOL	NR		1012	U	1012	U	NR		1012	U	1012	U
2,4-DINITROTOLUENE	NR		300	U	300	U	NR		300	U	300	U
2,6-DINITROTOLUENE	NR		300	U	300	U	NR		300	U	300	U
2-CHLORONAPHTHALENE	NR		150	U	150	U	NR		150	U	150	U
2-CHLOROPHENOL	NR		150	U	150	U	NR		150	U	150	U
2-NITROPHENOL	NR		450	U	450	U	NR		450	U	450	U
3,3'-DICHLOROBENZIDENE	NR		300	U	300	U	NR		300	U	300	U
4,6-DINITRO-2-METHYLPHENOL	NR		1500	U	1500	U	NR		1500	U	1500	U
4-BROMOPHENYL PHENYL ETHER	NR		150	U	150	U	NR		150	U	150	U
4-CHLORO-3-METHYLPHENOL	NR		750	U	750	U	NR		750	U	750	U
4-CHLOROPHENYL PHENYL ETHER	NR		150	U	150	U	NR		150	U	150	U
4-NITROPHENOL	NR		750	U	750	U	NR		750	U	750	U
ACENAPHTHENE	NR		75	U	75	U	NR		86		620	
ACENAPHTHYLENE	NR		75	U	450		NR		75	U	160	
ANTHRACENE	NR		75	U	140		NR		670		3200	
BENZIDINE	NR		1125	U	1125	U	NR		1125	U	1125	U
BENZO(A)ANTHRACENE	NR		150	U	190		NR		1800		7200	
BENZO(A)PYRENE	NR		75	U	450		NR		1300		7900	
BENZO(B)FLUORANTHENE	NR		75	U	480		NR		1600		6800	

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329018	86329019		86329020		86329021	86329022		86329023	
Client Identification	FS-D-3	FS-E-1*		FS-E-2 *		FS-E-3	FS-F-1 *		FS-F-2*	
Matrix Type	SOIL	SOIL		SOIL		SOIL	SOIL		SOIL	
BENZO(G,H,I)PERYLENE	NR	150	U	270		NR	450		2500	
BENZO(K)FLUORANTHENE	NR	75	U	210		NR	75	U	5200	
BENZYL BUTYL PHTHALATE	NR	150	U	150	U	NR	150	U	150	U
BIS(2-CHLOROETHOXY)METHANE	NR	150	U	150	U	NR	150	U	150	U
BIS(2-CHLOROETHYL)ETHER	NR	150	U	150	U	NR	150	U	150	U
BIS(2-CHLOROISOPROPYL)ETHER	NR	150	U	150	U	NR	150	U	150	U
BIS(2-ETHYLHEXYL)PHTHALATE	NR	150	U	760		NR	130		150	U
CHRYSENE	NR	75	U	200		NR	1600		5400	
DI-N-BUTYL PHTHALATE	NR	60	U	60	U	NR	60	U	60	U
DI-N-OCTYL PHTHALATE	NR	75	U	75	U	NR	75	U	75	U
DIBENZO(A,H)ANTHRACENE	NR	75	U	75	U	NR	110		75	U
DIETHYL PHTHALATE	NR	75	U	75	U	NR	75	U	75	U
DIMETHYL PHTHALATE	NR	75	U	75	U	NR	75	U	75	U
FLUORENE	NR	75	U	75	U	NR	190		1100	
FLUOROANTHENE	NR	75	U	300		NR	1900		110	
HEXACHLOROBENZENE	NR	150	U	150	U	NR	150	U	150	U
HEXACHLOROBUTADIENE	NR	150	U	150	U	NR	150	U	150	U
HEXACHLOROCYCLOPENTADIENE	NR	750	U	750	U	NR	750	U	750	U
HEXACHLOROETHANE	NR	300	U	300	U	NR	300	U	300	U
INDENO(1,2,3-C,D)PYRENE	NR	75	U	220		NR	480		2600	
ISOPHORONE	NR	150	U	150	U	NR	150	U	150	U
N-NITROSODIPHENYLAMINE	NR	150	U	150	U	NR	150	U	150	U
N-NITROSODIPROPYLAMINE	NR	750	U	750	U	NR	750	U	750	U
NAPHTHALENE	NR	75	U	75	U	NR	75	U	190	
NITROBENZENE	NR	300	U	300	U	NR	300	U	300	U
PENTACHLOROPHENOL	NR	750	U	750	U	NR	750	U	750	U
PHENANTHRENE	NR	75	U	250		NR	1800		8300	
PHENOL	NR	150	U	150	U	NR	150	U	150	U
PYRENE	NR	75	U	390		NR	3000		9000	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329018	86329019	86329020	86329021	86329022	86329023
Client Identification	FS-D-3	FS-E-1 *	FS-E-2 *	FS-E-3	FS-F-1*	FS-F-2*
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
LEAD (TOTAL)	120	12	19	15	11	12

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Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329018	86329019	86329020	86329021	86329022	86329023
Client Identification	FS-D-3	FS-E-1 *	FS-E-2 *	FS-E-3	FS-F-1 *	FS-F-2 *
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	2300	31 U	510	48	120	130
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
MOISTURE, PERCENT	27	20	20	21	13	15

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329024	86329025		86329026		86329028	86329029	86329030
Client Identification	FS-F-3	FS-G-1 *		FS-G-1 DUP		FS-G-2	FS-G-3	FS-N-1
Matrix Type	SOIL	SOIL		SOIL		SOIL	SOIL	SOIL
		UG/KG		UG/KG				
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS								
1,2,4-TRICHLOROBENZENE	NR	150	U	150	U	NR	NR	NR
1,2-DICHLOROBENZENE	NR	300	U	300	U	NR	NR	NR
1,2-DIPHENYLHYDRAZINE	NR	150	U	150	U	NR	NR	NR
1,3-DICHLOROBENZENE	NR	150	U	150	U	NR	NR	NR
1,4-DICHLOROBENZENE	NR	150	U	150	U	NR	NR	NR
2,4,6-TRICHLOROPHENOL	NR	150	U	150	U	NR	NR	NR
2,4-DICHLOROPHENOL	NR	150	U	150	U	NR	NR	NR
2,4-DIMETHYLPHENOL	NR	150	U	150	U	NR	NR	NR
2,4-DINITROPHENOL	NR	1012	U	1012	U	NR	NR	NR
2,4-DINITROTOLUENE	NR	300	U	300	U	NR	NR	NR
2,6-DINITROTOLUENE	NR	300	U	300	U	NR	NR	NR
2-CHLORONAPHTHALENE	NR	150	U	150	U	NR	NR	NR
2-CHLOROPHENOL	NR	150	U	150	U	NR	NR	NR
2-NITROPHENOL	NR	450	U	450	U	NR	NR	NR
3,3'-DICHLOROBENZIDENE	NR	300	U	300	U	NR	NR	NR
4,6-DINITRO-2-METHYLPHENOL	NR	1500	U	1500	U	NR	NR	NR
4-BROMOPHENYL PHENYL ETHER	NR	150	U	150	U	NR	NR	NR
4-CHLORO-3-METHYLPHENOL	NR	750	U	750	U	NR	NR	NR
4-CHLOROPHENYL PHENYL ETHER	NR	150	U	150	U	NR	NR	NR
4-NITROPHENOL	NR	750	U	750	U	NR	NR	NR
ACENAPHTHENE	NR	75	U	75	U	NR	NR	NR
ACENAPHTHYLENE	NR	75	U	75	U	NR	NR	NR
ANTHRACENE	NR	75	U	75	U	NR	NR	NR
BENZIDINE	NR	1125	U	1125	U	NR	NR	NR
BENZO(A)ANTHRACENE	NR	410		640		NR	NR	NR
BENZO(A)PYRENE	NR	440		450		NR	NR	NR
BENZO(B)FLUORANTHENE	NR	75	U	340		NR	NR	NR

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Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329024	86329025		86329026		86329028	86329029	86329030
Client Identification	FS-F-3	FS-G-1 *		FS-G-1 DUP		FS-G-2	FS-G-3	FS-H-1
Matrix Type	SOIL	SOIL		SOIL		SOIL	SOIL	SOIL
BENZO(G,H,I)PERYLENE	NR	250		190		NR	NR	NR
BENZO(K)FLUORANTHENE	NR	500		380		NR	NR	NR
BENZYL BUTYL PHTHALATE	NR	150	U	150	U	NR	NR	NR
BIS(2-CHLOROETHOXY)METHANE	NR	150	U	150	U	NR	NR	NR
BIS(2-CHLOROETHYL)ETHER	NR	150	U	150	U	NR	NR	NR
BIS(2-CHLOROISOPROPYL)ETHER	NR	150	U	150	U	NR	NR	NR
BIS(2-ETHYLHEXYL)PHTHALATE	NR	150	U	310		NR	NR	NR
CHRYSENE	NR	1000		670		NR	NR	NR
DI-N-BUTYL PHTHALATE	NR	60	U	60	U	NR	NR	NR
DI-N-OCTYL PHTHALATE	NR	75	U	75	U	NR	NR	NR
DIBENZO(A,H)ANTHRACENE	NR	75	U	75	U	NR	NR	NR
DIETHYL PHTHALATE	NR	75	U	75	U	NR	NR	NR
DIMETHYL PHTHALATE	NR	75	U	75	U	NR	NR	NR
FLUORENE	NR	75	U	75	U	NR	NR	NR
FLUOROANTHENE	NR	960		820		NR	NR	NR
HEXACHLOROBENZENE	NR	150	U	150	U	NR	NR	NR
HEXACHLOROBUTADIENE	NR	150	U	150	U	NR	NR	NR
HEXACHLOROCYCLOPENTADIENE	NR	750	U	750	U	NR	NR	NR
HEXACHLOROETHANE	NR	300	U	300	U	NR	NR	NR
INDENO(1,2,3-C,D)PYRENE	NR	270		190		NR	NR	NR
ISOPHORONE	NR	150	U	150	U	NR	NR	NR
N-NITROSODIPHENYLAMINE	NR	150	U	150	U	NR	NR	NR
N-NITROSODIPROPYLAMINE	NR	750	U	750	U	NR	NR	NR
NAPHTHALENE	NR	75	U	75	U	NR	NR	NR
NITROBENZENE	NR	300	U	300	U	NR	NR	NR
PENTACHLOROPHENOL	NR	750	U	750	U	NR	NR	NR
PHENANTHRENE	NR	510		560		NR	NR	NR
PHENOL	NR	150	U	150	U	NR	NR	NR
PYRENE	NR	1200		1300		NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	86329024	86329025	86329026	86329028	86329029	86329030
Client Identification	FS-F-3	FS-G-1*	FS-G-1 DUP	FS-G-2	FS-G-3	FS-H-1
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
VOLATILES, PRIORITY POLLUTANTS						
1,1,1-TRICHLOROETHANE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
1,1,2,2-TETRACHLOROETHANE	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
1,1,2-TRICHLOROETHANE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-DICHLOROETHANE	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
1,1-DICHLOROETHENE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,2-DICHLOROETHANE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,2-DICHLOROPROPANE	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
2-CHLOROETHYL VINYL ETHER	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
BROMODICHLOROMETHANE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
BROMOFORM	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
BROMOMETHANE	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
CARBON TETRACHLORIDE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
CHLOROBENZENE	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
CHLORODIBROMOMETHANE	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
CHLOROETHANE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
CHLOROFORM	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
CHLOROMETHANE	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
CIS-1,3-DICHLOROPROPENE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYL BENZENE	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
METHYLENE CHLORIDE	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
TETRACHLOROETHENE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
TOLUENE	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
TRANS-1,2-DICHLOROETHENE	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
TRANS-1,3-DICHLOROPROPENE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
TRICHLOROETHENE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	86329024	86329025	86329026	86329028	86329029	86329030
Client Identification	FS-F-3	FS-G-1 *	FS-G-1 DUP	FS-G-2	FS-G-3	FS-H-1
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
VINYL CHLORIDE	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U
	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
LEAD (TOTAL)	7.1	11	11	37	11	6.7

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329024	86329025	86329026	86329028	86329029	86329030
Client Identification	FS-F-3	FS-G-1*	FS-G-1 DUP	FS-G-2	FS-G-3	FS-H-1
Matrix Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	MG/KG	MG/KG	MG/KG		MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	29 U	470	430	NR	110	28 U
	PERCENT	PERCENT	PERCENT		PERCENT	PERCENT
MOISTURE, PERCENT	16	19	19	NR	17	21

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Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329031		86329032		86329033		86329034	
Client Identification	FS-N-2		FS-N-3		FS-N-4		FS-I-1	
Matrix Type	SOIL		SOIL		SOIL		SOIL	
	UG/KG		UG/KG		UG/KG		UG/KG	
VOLATILES, PRIORITY POLLUTANTS								
1,1,1-TRICHLOROETHANE	1.9	U	1.9	U	1.9	U	1.9	U
1,1,2,2-TETRACHLOROETHANE	3.4	U	3.4	U	3.4	U	3.4	U
1,1,2-TRICHLOROETHANE	2.5	U	2.5	U	2.5	U	2.5	U
1,1-DICHLOROETHANE	2.4	U	2.4	U	2.4	U	2.4	U
1,1-DICHLOROETHENE	1.4	U	1.4	U	1.4	U	1.4	U
1,2-DICHLOROETHANE	1.4	U	1.4	U	1.4	U	1.4	U
1,2-DICHLOROPROPANE	3.0	U	3.0	U	3.0	U	3.0	U
2-CHLOROETHYL VINYL ETHER	5.0	U	5.0	U	5.0	U	5.0	U
BENZENE	2.2	U	2.2	U	2.2	U	2.2	U
BROMODICHLOROMETHANE	1.1	U	1.1	U	1.1	U	1.1	U
BROMOFORM	2.4	U	2.4	U	2.4	U	2.4	U
BROMOMETHANE	6.0	U	6.0	U	6.0	U	6.0	U
CARBON TETRACHLORIDE	1.4	U	1.4	U	1.4	U	1.4	U
CHLOROBENZENE	3.0	U	3.0	U	3.0	U	3.0	U
CHLORODIBROMOMETHANE	1.6	U	1.6	U	1.6	U	1.6	U
CHLOROETHANE	2.6	U	2.6	U	2.6	U	2.6	U
CHLOROFORM	0.80	U	0.80	U	0.80	U	0.80	U
CHLOROMETHANE	0.40	U	0.40	U	0.40	U	0.40	U
CIS-1,3-DICHLOROPROPENE	1.0	U	1.0	U	1.0	U	1.0	U
ETHYL BENZENE	3.6	U	3.6	U	3.6	U	3.6	U
METHYLENE CHLORIDE	1.4	U	1.4	U	1.4	U	1.4	U
TETRACHLOROETHENE	2.0	U	2.0	U	2.0	U	2.0	U
TOLUENE	3.0	U	3.0	U	3.0	U	3.0	U
TRANS-1,2-DICHLOROETHENE	0.80	U	0.80	U	0.80	U	0.80	U
TRANS-1,3-DICHLOROPROPENE	2.5	U	2.5	U	2.5	U	2.5	U
TRICHLOROETHENE	1.0	U	1.0	U	1.0	U	1.0	U
TRICHLOROFLUOROMETHANE	2.5	U	2.5	U	2.5	U	2.5	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	86329031	86329032	86329033	86329034
Client Identification	FS-H-2	FS-H-3	FS-H-4	FS-I-1
Matrix Type	SOIL	SOIL	SOIL	SOIL
VINYL CHLORIDE	0.90 U	0.90 U	0.90 U	0.90 U
PRIORITY POLLUTANT METALS (13)				MG/KG
ANTIMONY (TOTAL)	NR	NR	NR	0.17 U
ARSENIC (TOTAL)	NR	NR	NR	4.6
BERYLLIUM (TOTAL)	NR	NR	NR	0.40
CADMIUM (TOTAL)	NR	NR	NR	0.47
CHROMIUM (TOTAL)	NR	NR	NR	8.4
COPPER (TOTAL)	NR	NR	NR	18
LEAD (TOTAL)	NR	NR	NR	13
MERCURY (TOTAL)	NR	NR	NR	0.051
NICKEL (TOTAL)	NR	NR	NR	8.8
SELENIUM (TOTAL)	NR	NR	NR	1.0
SILVER (TOTAL)	NR	NR	NR	0.17 U
THALLIUM (TOTAL)	NR	NR	NR	12 U
ZINC (TOTAL)	NR	NR	NR	30
	MG/KG	MG/KG	MG/KG	
LEAD (TOTAL)	14	9.4	6.5	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86329031	86329032	86329033	86329034
Client Identification	FS-H-2	FS-H-3	FS-H-4	FS-I-1
Matrix Type	SOIL	SOIL	SOIL	SOIL
	MG/KG	MG/KG	MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	99	28 U	28 U	30 U
	PERCENT	PERCENT	PERCENT	PERCENT
MOISTURE, PERCENT	14	15	17	18

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 1

01-may-1987

Notes and Comments:

NR	Analysis Not Required
GF	GRAPHITE FURNACE
U	UNDETECTED AT DETECTION LIMIT SHOWN
*	Holding Times Exceeded for semivolatile organics only; see Page H-298 - H-303 for the new analytical results for the said parameters.

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT

Date of Report: 01-may-1987

Samples will be held for two weeks
after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Release Approval

Laboratory Identification	86350001	86350002	86350003	86350004	86350005		86350006	
Client Identification	EW-1 (1)+	SW-30	SW-31*	SW-32*	SD-30		SD-31	
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS		SEDIMENTS	
					UG/KG		UG/KG	
VOLATILES, PRIORITY POLLUTANTS								
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	1.9	U	1.9	U
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	3.4	U	3.4	U
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	2.5	U	2.5	U
1,1-DICHLOROETHANE	NR	NR	NR	NR	2.4	U	2.4	U
1,1-DICHLOROETHENE	NR	NR	NR	NR	1.4	U	1.4	U
1,2-DICHLOROETHANE	NR	NR	NR	NR	1.4	U	1.4	U
1,2-DICHLOROPROPANE	NR	NR	NR	NR	3.0	U	3.0	U
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	5.0	U	5.0	U
BENZENE	NR	NR	NR	NR	2.2	U	2.2	U
BROMODICHLOROMETHANE	NR	NR	NR	NR	1.1	U	1.1	U
BROMOFORM	NR	NR	NR	NR	2.4	U	2.4	U
BROMOMETHANE	NR	NR	NR	NR	6.0	U	6.0	U
CARBON TETRACHLORIDE	NR	NR	NR	NR	1.4	U	1.4	U
CHLOROBENZENE	NR	NR	NR	NR	3.0	U	3.0	U
CHLORODIBROMOMETHANE	NR	NR	NR	NR	1.6	U	1.6	U
CHLOROETHANE	NR	NR	NR	NR	2.6	U	2.6	U
CHLOROFORM	NR	NR	NR	NR	0.80	U	0.80	U
CHLOROMETHANE	NR	NR	NR	NR	0.40	U	0.40	U
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	1.0	U	1.0	U
ETHYL BENZENE	NR	NR	NR	NR	3.6	U	3.6	U
METHYLENE CHLORIDE	NR	NR	NR	NR	1.4	U	1.4	U
TETRACHLOROETHENE	NR	NR	NR	NR	2.0	U	2.0	U
TOLUENE	NR	NR	NR	NR	3.0	U	3.0	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

FINAL REPORT

Date of Report: 01-may-1987

Laboratory Identification	86350001	86350002	86350003	86350004	86350005	86350006
Client Identification	EW-1 (1)+	SW-30	SW-31*	SW-32*	SD-30	SD-31
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	0.80 U	0.80 U
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	2.5 U	2.5 U
TRICHLOROETHENE	NR	NR	NR	NR	1.0 U	1.0 U
VINYL CHLORIDE	NR	NR	NR	NR	0.90 U	0.90 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350001	86350002	86350003	86350004	86350005	86350006
Client Identification	EW-1 (1) +	SW-30	SW-31 *	SW-32 *	SD-30	SD-31
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
		UG/L	UG/L	UG/L		
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	0.14	1.3	0.66	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	0.03 U	0.03 U	0.05	NR	NR
1,1,2-TRICHLOROETHANE	NR	0.02 U	0.02 U	0.02 U	NR	NR
1,1-DICHLOROETHANE	NR	0.07 U	0.07 U	0.07 U	NR	NR
1,1-DICHLOROETHENE	NR	0.13 U	0.13 U	0.13 U	NR	NR
1,2-DICHLOROBENZENE	NR	0.32 U	0.32 U	0.32 U	NR	NR
1,2-DICHLOROETHANE	NR	0.03 U	0.03 U	0.03 U	NR	NR
1,2-DICHLOROPROPANE	NR	0.04 U	0.04 U	0.04 U	NR	NR
1,3-DICHLOROBENZENE	NR	0.15 U	0.15 U	0.15 U	NR	NR
1,4-DICHLOROBENZENE	NR	0.24 U	0.24 U	0.24 U	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	0.13 U	0.13 U	0.13 U	NR	NR
BROMODICHLOROMETHANE	NR	0.10 U	0.10 U	0.10 U	NR	NR
BROMOFORM	NR	0.20 U	0.20 U	0.20 U	NR	NR
BROMOMETHANE	NR	1.2 U	1.2 U	1.2 U	NR	NR
CARBON TETRACHLORIDE	NR	0.12 U	0.12 U	0.12 U	NR	NR
CHLOROBENZENE	NR	0.25 U	0.25 U	0.25 U	NR	NR
CHLORODIBROMOMETHANE	NR	0.09 U	0.09 U	0.09 U	NR	NR
CHLOROETHANE	NR	0.52 U	0.52 U	0.52 U	NR	NR
CHLOROFORM	NR	0.05 U	0.05 U	0.05 U	NR	NR
CHLOROMETHANE	NR	0.08 U	0.08 U	0.08 U	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	0.20 U	0.20 U	0.20 U	NR	NR
DICHLORODIFLUOROMETHANE	NR	1.8 U	1.8 U	1.8 U	NR	NR
METHYLENE CHLORIDE	NR	0.25 U	0.36	26	NR	NR
TETRACHLOROETHENE	NR	0.03 U	0.03 U	0.03 U	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	0.10 U	0.10 U	0.10 U	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	0.34 U	0.34 U	0.34 U	NR	NR
TRICHLOROETHENE	NR	0.12 U	0.12 U	0.12 U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

FINAL REPORT

Date of Report: 01-may-1987

Laboratory Identification	86350001	86350002	86350003	86350004	86350005	86350006
Client Identification	EW-1 (1)+	SW-30	SW-31 *	SW-32 *	SD-30	SD-31
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
TRICHLOROFLUOROMETHANE	NR	0.50 U	0.50 U	15 NC	NR	NR
VINYL CHLORIDE	NR	0.18 U	0.18 U	0.18 U	NR	NR
		UG/L	UG/L	UG/L		
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	0.40 U	0.40 U	0.40 U	NR	NR
1,3-DICHLOROBENZENE	NR	0.30 U	0.30 U	0.30 U	NR	NR
1,4-DICHLOROBENZENE	NR	0.40 U	0.40 U	0.40 U	NR	NR
BENZENE	NR	0.20 U	0.20 U	0.20 U	NR	NR
CHLOROBENZENE	NR	0.20 U	0.20 U	0.20 U	NR	NR
ETHYL BENZENE	NR	0.20 U	0.20 U	0.20 U	NR	NR
TOLUENE	NR	0.20 U	0.20 U	0.20 U	NR	NR
XYLENES, TOTAL	NR	0.60 U	0.60 U	0.60 U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
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Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350001		86350002	86350003	86350004	86350005	86350006
Client Identification	EW-1 (1) +		SW-30	SW-31 *	SW-32 *	SD-30	SD-31
Matrix Type	WATER		WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
	UG/L						
PEST/PCB'S (METH 608 CMPDS)							
4,4'-DDD	0.42	U	NR	NR	NR	NR	NR
4,4'-DDE	0.16	U	NR	NR	NR	NR	NR
4,4'-DDT	0.22	U	NR	NR	NR	NR	NR
A-BHC	0.07	U	NR	NR	NR	NR	NR
ALDRIN	0.07	U	NR	NR	NR	NR	NR
B-BHC	8.4		NR	NR	NR	NR	NR
CHLORDANE	1.1	U	NR	NR	NR	NR	NR
D-BHC	0.15	U	NR	NR	NR	NR	NR
DIELDRIN	0.10	U	NR	NR	NR	NR	NR
ENDOSULFAN I	0.09	U	NR	NR	NR	NR	NR
ENDOSULFAN II	0.14	U	NR	NR	NR	NR	NR
ENDOSULFAN SULFATE	0.15	U	NR	NR	NR	NR	NR
ENDRIN	0.32	U	NR	NR	NR	NR	NR
ENDRIN ALDEHYDE	0.20	U	NR	NR	NR	NR	NR
G-BHC(LINDANE)	0.07	U	NR	NR	NR	NR	NR
HEPTACHLOR	0.07	U	NR	NR	NR	NR	NR
HEPTACHLOR EPOXIDE	0.08	U	NR	NR	NR	NR	NR
PCB-1016	4.6	U	NR	NR	NR	NR	NR
PCB-1221	8.6	U	NR	NR	NR	NR	NR
PCB-1232	7.8	U	NR	NR	NR	NR	NR
PCB-1242	4.8	U	NR	NR	NR	NR	NR
PCB-1248	4.7	U	NR	NR	NR	NR	NR
PCB-1254	2.1	U	NR	NR	NR	NR	NR
PCB-1260	1.9	U	NR	NR	NR	NR	NR
TOXAPHENE	8.4	U	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
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Shipment No.: 2

FINAL REPORT

Date of Report: 01-may-1987

Laboratory Identification	86350001		86350002	86350003	86350004	86350005	86350006
Client Identification	EW-1 (1) +		SW-30	SW-31 *	SW-32 *	SD-30	SD-31
Matrix Type	WATER		WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
	UG/L						
ORGANOPHOSPHORUS PESTICIDES (METH 614 CMPDS)							
AZINPHOS METHYL	15	U	NR	NR	NR	NR	NR
DEMETON-S	4.3	U	NR	NR	NR	NR	NR
DIAZINON	3.2	U	NR	NR	NR	NR	NR
DISULFOTON	3.2	U	NR	NR	NR	NR	NR
ETHION	3.2	U	NR	NR	NR	NR	NR
MALATHION	400		NR	NR	NR	NR	NR
PARATHION,ETHYL	50	NC	NR	NR	NR	NR	NR
PARATHION,METHYL	12	NC	NR	NR	NR	NR	NR
	UG/L						
HERBICIDES, CHLORINATED (METH 615 CMPDS)							
2,4,5-T	4.8	U	NR	NR	NR	NR	NR
2,4,5-TP(SILVEX)	3.9	U	NR	NR	NR	NR	NR
2,4-D	10	U	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

FINAL REPORT

Date of Report: 01-may-1987

Laboratory Identification	86350001	86350002	86350003	86350004	86350005	86350006
Client Identification	EW-1 (1)+	SW-30	SW-31*	SW-32*	SD-30	SD-31
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
		UG/L	UG/L	UG/L	MG/KG	MG/KG
LEAD (TOTAL)	NR	0.92 U	0.92 U	0.92 U	21	22

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

FINAL REPORT

Date of Report: 01-may-1987

Laboratory Identification	86350001	86350002	86350003	86350004	86350005	86350006
Client Identification	EW-1 (1) +	SW-30	SW-31*	SW-32*	SD-30	SD-31
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
		MG/L	MG/L	MG/L	MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	NR	0.50 U	0.50 U	0.50 U	2100	30
					PERCENT	PERCENT
MOISTURE, PERCENT	NR	NR	NR	NR	28	25

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350007		86350008	86350009	86350010	86350011	86350012
Client Identification	SD-32		TS-1	TS-2	TS-3	TS-4	TS-5
Matrix Type	SEDIMENTS		SOIL	SOIL	SOIL	SOIL	SOIL
	UG/KG						
VOLATILES, PRIORITY POLLUTANTS							
1,1,1-TRICHLOROETHANE	1.9	U	NR	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	3.4	U	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	2.5	U	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	2.4	U	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	1.4	U	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	1.4	U	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	3.0	U	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	5.0	U	NR	NR	NR	NR	NR
BENZENE	2.2	U	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	1.1	U	NR	NR	NR	NR	NR
BROMOFORM	2.4	U	NR	NR	NR	NR	NR
BROMOMETHANE	6.0	U	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	1.4	U	NR	NR	NR	NR	NR
CHLOROBENZENE	3.0	U	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	1.6	U	NR	NR	NR	NR	NR
CHLOROETHANE	2.6	U	NR	NR	NR	NR	NR
CHLOROFORM	0.80	U	NR	NR	NR	NR	NR
CHLOROMETHANE	0.40	U	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	1.0	U	NR	NR	NR	NR	NR
ETHYL BENZENE	3.6	U	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	1.4	U	NR	NR	NR	NR	NR
TETRACHLOROETHENE	2.0	U	NR	NR	NR	NR	NR
TOLUENE	3.0	U	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	0.80	U	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	2.5	U	NR	NR	NR	NR	NR
TRICHLOROETHENE	1.0	U	NR	NR	NR	NR	NR
VINYL CHLORIDE	0.90	U	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350007	86350008		86350009		86350010		86350011		86350012	
Client Identification	SD-32	TS-1		TS-2		TS-3		TS-4		TS-5	
Matrix Type	SEDIMENTS	SOIL		SOIL		SOIL		SOIL		SOIL	
		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
PCB'S (7 AROCHLORS) (METHOD 608 CMPDS)											
PCB-1016	NR	1400	U	110	U	130	U	160	U	130	U
PCB-1221	NR	2700	U	210	U	240	U	300	U	250	U
PCB-1232	NR	2400	U	190	U	220	U	280	U	220	U
PCB-1242	NR	1500	U	120	U	130	U	170	U	140	U
PCB-1248	NR	1500	U	120	U	130	U	170	U	140	U
PCB-1254	NR	660	U	52	U	60	U	75	U	61	U
PCB-1260	NR	590	U	98		53	U	67	U	54	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350007	86350008	86350009	86350010	86350011	86350012
Client Identification	SD-32	TS-1	TS-2	TS-3	TS-4	TS-5
Matrix Type	SEDIMENTS	SOIL	SOIL	SOIL	SOIL	SOIL
	MG/KG					
LEAD (TOTAL)	19	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350007	86350008	86350009	86350010	86350011	86350012
Client Identification	SD-32	TS-1	TS-2	TS-3	TS-4	TS-5
Matrix Type	SEDIMENTS	SOIL	SOIL	SOIL	SOIL	SOIL
	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	28 U	39 U	2200	35 U	250	31 U
	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
MOISTURE, PERCENT	24	40	22	33	35	23

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350013		86350014		86350015		86350016		86350017		86350018	
Client Identification	SW-1		SW-2		SW-3		SW-4**		SD-1		SD-2	
Matrix Type	WATER		WATER		WATER		WATER		SEDIMENTS		SEDIMENTS	
	UG/L		UG/L		UG/L		UG/L		UG/KG		UG/KG	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS												
1,2,4-TRICHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
1,2-DICHLOROBENZENE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
1,2-DIPHENYLHYDRAZINE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
1,3-DICHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
1,4-DICHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2,4,6-TRICHLOROPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2,4-DICHLOROPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2,4-DIMETHYLPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2,4-DINITROPHENOL	27	U	27	U	27	U	27	U	1000	U	1000	U
2,4-DINITROTOLUENE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
2,6-DINITROTOLUENE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
2-CHLORONAPHTHALENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2-CHLOROPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2-NITROPHENOL	12	U	12	U	12	U	12	U	450	U	450	U
3,3'-DICHLOROBENZIDENE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
4,6-DINITRO-2-METHYLPHENOL	40	U	40	U	40	U	40	U	1500	U	1500	U
4-BROMOPHENYL PHENYL ETHER	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
4-CHLORO-3-METHYLPHENOL	20	U	20	U	20	U	20	U	750	U	750	U
4-CHLOROPHENYL PHENYL ETHER	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
4-NITROPHENOL	20	U	20	U	20	U	20	U	750	U	750	U
ACENAPHTHENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
ACENAPHTHYLENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
ANTHRACENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
BENZIDINE	30	U	30	U	30	U	30	U	1100	U	1100	U
BENZO(A)ANTHRACENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
BENZO(A)PYRENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
BENZO(B)FLUORANTHENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350013		86350014		86350015		86350016		86350017		86350018	
Client Identification	SW-1		SW-2		SW-3		SW-4**		SD-1		SD-2	
Matrix Type	WATER		WATER		WATER		WATER		SEDIMENTS		SEDIMENTS	
BENZO(G,H,I)PERYLENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
BENZO(K)FLUORANTHENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
BENZYL BUTYL PHTHALATE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
BIS(2-CHLOROETHOXY)METHANE	4.0	U	[illegible]	U	4.0	U	4.0	U	150	U	150	U
BIS(2-CHLOROETHYL)ETHER	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
BIS(2-CHLOROISOPROPYL)ETHER	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
BIS(2-ETHYLHEXYL)PHTHALATE	4.0	U	4.0	U	4.0	U	4.0	U	140		620	
CHRYSENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
DI-N-BUTYL PHTHALATE	1.6	U	1.6	U	1.6	U	1.6	U	60	U	60	U
DI-N-OCTYL PHTHALATE	2.0	U	2.0	U	2.0	U	2.0	U	200		75	U
DIBENZO(A,H)ANTHRACENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
DIETHYL PHTHALATE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
DIMETHYL PHTHALATE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
FLUORENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
FLUOROANTHENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
HEXACHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
HEXACHLOROBUTADIENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
HEXACHLOROCYCLOPENTADIENE	20	U	20	U	20	U	20	U	750	U	750	U
HEXACHLOROETHANE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
INDENO(1,2,3-C,D)PYRENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
ISOPHORONE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
N-NITROSODIPHENYLAMINE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
N-NITROSODIPROPYLAMINE	20	U	20	U	20	U	20	U	750	U	750	U
NAPHTHALENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
NITROBENZENE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
PENTACHLOROPHENOL	20	U	20	U	20	U	20	U	750	U	750	U
PHENANTHRENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
PHENOL	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
PYRENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350013	86350014	86350015	86350016	86350017	86350018
Client Identification	SW-1	SW-2	SW-3	SW-4**	SD-1	SD-2
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
					UG/KG	UG/KG
VOLATILES, PRIORITY POLLUTANTS						
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	1.9 U	1.9 U
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	3.4 U	3.4 U
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	2.5 U	2.5 U
1,1-DICHLOROETHANE	NR	NR	NR	NR	2.4 U	2.4 U
1,1-DICHLOROETHENE	NR	NR	NR	NR	1.4 U	1.4 U
1,2-DICHLOROETHANE	NR	NR	NR	NR	1.4 U	1.4 U
1,2-DICHLOROPROPANE	NR	NR	NR	NR	3.0 U	3.0 U
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	5.0 U	5.0 U
BENZENE	NR	NR	NR	NR	2.2 U	2.2 U
BROMODICHLOROMETHANE	NR	NR	NR	NR	1.1 U	1.1 U
BROMOFORM	NR	NR	NR	NR	2.4 U	2.4 U
BROMOMETHANE	NR	NR	NR	NR	6.0 U	6.0 U
CARBON TETRACHLORIDE	NR	NR	NR	NR	1.4 U	1.4 U
CHLOROBENZENE	NR	NR	NR	NR	3.0 U	3.0 U
CHLORODIBROMOMETHANE	NR	NR	NR	NR	1.6 U	1.6 U
CHLOROETHANE	NR	NR	NR	NR	2.6 U	2.6 U
CHLOROFORM	NR	NR	NR	NR	0.80 U	0.80 U
CHLOROMETHANE	NR	NR	NR	NR	0.40 U	0.40 U
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	1.0 U	1.0 U
ETHYL BENZENE	NR	NR	NR	NR	3.6 U	3.6 U
METHYLENE CHLORIDE	NR	NR	NR	NR	1.4 U	1.4 U
TETRACHLOROETHENE	NR	NR	NR	NR	2.0 U	2.0 U
TOLUENE	NR	NR	NR	NR	3.0 U	3.0 U
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	0.80 U	0.80 U
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	2.5 U	2.5 U
TRICHLOROETHENE	NR	NR	NR	NR	1.0 U	1.0 U
VINYL CHLORIDE	NR	NR	NR	NR	0.90 U	0.90 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350013	86350014	86350015	86350016	86350017	86350018
Client Identification	SW-1	SW-2	SW-3	SW-4 **	SD-1	SD-2
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
	UG/L	UG/L	UG/L	UG/L		
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	0.25 NC	0.43	0.03 U	0.91 NC	NR	NR
1,1,2,2-TETRACHLOROETHANE	0.03 U	0.03 U	0.03 U	0.03 U	NR	NR
1,1,2-TRICHLOROETHANE	0.02 U	0.02 U	0.02 U	0.02 U	NR	NR
1,1-DICHLOROETHANE	0.07 U	0.07 U	0.07 U	0.07 U	NR	NR
1,1-DICHLOROETHENE	0.13 U	0.13 U	0.13 U	0.13 U	NR	NR
1,2-DICHLOROBENZENE	0.32 U	0.32 U	0.32 U	0.32 U	NR	NR
1,2-DICHLOROETHANE	0.03 U	0.03 U	0.03 U	0.03 U	NR	NR
1,2-DICHLOROPROPANE	0.04 U	0.04 U	0.04 U	0.04 U	NR	NR
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	NR	NR
1,4-DICHLOROBENZENE	0.24 U	0.24 U	0.24 U	0.24 U	NR	NR
2-CHLOROETHYL VINYL ETHER	0.13 U	0.13 U	0.13 U	0.13 U	NR	NR
BROMODICHLOROMETHANE	0.10 U	0.10 U	0.10 U	0.10 U	NR	NR
BROMOFORM	0.20 U	0.20 U	0.20 U	0.20 U	NR	NR
BROMOMETHANE	1.2 U	1.2 U	1.2 U	1.2 U	NR	NR
CARBON TETRACHLORIDE	0.12 U	0.12 U	0.12 U	0.12 U	NR	NR
CHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	NR	NR
CHLORODIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	NR	NR
CHLOROETHANE	0.52 U	0.52 U	0.52 U	0.52 U	NR	NR
CHLOROFORM	0.05 U	0.05 U	0.05 U	0.08 NC	NR	NR
CHLOROMETHANE	0.08 U	0.08 U	0.08 U	0.08 U	NR	NR
CIS-1,3-DICHLOROPROPENE	0.20 U	0.20 U	0.20 U	0.20 U	NR	NR
DICHLORODIFLUOROMETHANE	1.8 U	1.8 U	1.8 U	1.8 U	NR	NR
METHYLENE CHLORIDE	0.30	3.1	0.44	0.83	NR	NR
TETRACHLOROETHENE	0.03 U	0.03 U	0.03 U	0.03 U	NR	NR
TRANS-1,2-DICHLOROETHENE	0.10 U	0.10 U	0.10 U	0.10 U	NR	NR
TRANS-1,3-DICHLOROPROPENE	0.34 U	0.34 U	0.34 U	0.34 U	NR	NR
TRICHLOROETHENE	0.12 U	0.12 U	0.12 U	0.12 U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350013	86350014	86350015	86350016	86350017	86350018
Client Identification	SW-1	SW-2	SW-3	SW-4**	SD-1	SD-2
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
TRICHLOROFLUOROMETHANE	0.50 U	0.50 U	0.50 U	0.50 U	NR	NR
VINYL CHLORIDE	0.18 U	0.18 U	0.18 U	0.18 U	NR	NR
	UG/L	UG/L	UG/L	UG/L		
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U	0.40 U	NR	NR
1,3-DICHLOROBENZENE	0.30 U	0.30 U	0.30 U	0.30 U	NR	NR
1,4-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U	0.40 U	NR	NR
BENZENE	0.20 U	0.20 U	0.20 U	0.20 U	NR	NR
CHLOROBENZENE	0.20 U	0.20 U	0.20 U	0.20 U	NR	NR
ETHYL BENZENE	0.20 U	0.20 U	0.20 U	0.20 U	NR	NR
TOLUENE	0.20 U	0.20 U	0.20 U	0.20 U	NR	NR
XYLENES, TOTAL	0.60 U	0.60 U	0.60 U	0.60 U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350013		86350014		86350015		86350016		86350017		86350018	
Client Identification	SW-1		SW-2		SW-3		SW-4 **		SD-1		SD-2	
Matrix Type	WATER		WATER		WATER		WATER		SEDIMENTS		SEDIMENTS	
	UG/L		UG/L		UG/L		UG/L		MG/KG		MG/KG	
PRIORITY POLLUTANT METALS (13) (TOTAL)												
ANTIMONY (TOTAL)	200	U	200	U	200	U	200	U	5.0	U	5.0	U
ARSENIC (TOTAL)	1.0	U	1.0	U	1.0	U	1.0	U	16		46	
BERYLLIUM (TOTAL)	5.0	U	5.0	U	5.0	U	5.0	U	0.40		0.42	
CADMIUM (TOTAL)	5.0	U	5.0	U	5.0	U	5.0	U	1.2		1.8	
CHROMIUM (TOTAL)	50	U	50	U	50	U	50	U	9.3		9.3	
COPPER (TOTAL)	20	U	20	U	20	U	20	U	37	U	39	
LEAD (TOTAL)	100	U	100	U	100	U	100	U	18		29	
MERCURY-CVAA (TOTAL)	0.20	U	0.20	U	0.20	U	0.20	U	0.033		0.013	
NICKEL (TOTAL)	40	U	40	U	40	U	40	U	12		13	
SELENIUM (TOTAL)	2.0	U	2.0	U	2.0	U	2.0	U	2.6		4.6	
SILVER (TOTAL)	10	U	10	U	10	U	10	U	0.25	U	0.25	U
THALLIUM (TOTAL)	100	U	100	U	100	U	100	U	0.92	U	0.92	U
ZINC (TOTAL)	5.0	U	5.0	U	5.0	U	5.0	U	100		170	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350013	86350014	86350015	86350016	86350017	86350018
Client Identification	SW-1	SW-2	SW-3	SW-4**	SD-1	SD-2
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
	MG/L	MG/L	MG/L	MG/L	MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	0.50 U	0.50 U	0.50 U	0.50 U	51 U	140
					PERCENT	PERCENT
MOISTURE, PERCENT	NR	NR	NR	NR	55	64

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350019		86350020		86350021		86350022		86350023		86350024	
Client Identification	SD-3		SD-4 **		SW-5 **		SW-6**		SW-7**		SW-8	
Matrix Type	SEDIMENTS		SEDIMENTS		WATER		WATER		WATER		WATER	
	UG/KG		UG/KG		UG/L		UG/L		UG/L		UG/L	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS												
1,2,4-TRICHLOROBENZENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
1,2-DICHLOROBENZENE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
1,2-DIPHENYLHYDRAZINE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
1,3-DICHLOROBENZENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
1,4-DICHLOROBENZENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4,6-TRICHLOROPHENOL	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4-DICHLOROPHENOL	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4-DIMETHYLPHENOL	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4-DINITROPHENOL	1000	U	1000	U	27	U	27	U	27	U	27	U
2,4-DINITROTOLUENE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
2,6-DINITROTOLUENE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
2-CHLORONAPHTHALENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2-CHLOROPHENOL	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2-NITROPHENOL	450	U	450	U	12	U	12	U	12	U	12	U
3,3'-DICHLOROBENZIDENE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
4,6-DINITRO-2-METHYLPHENOL	1500	U	1500	U	40	U	40	U	40	U	40	U
4-BROMOPHENYL PHENYL ETHER	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
4-CHLORO-3-METHYLPHENOL	750	U	750	U	20	U	20	U	20	U	20	U
4-CHLOROPHENYL PHENYL ETHER	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
4-NITROPHENOL	750	U	750	U	20	U	20	U	20	U	20	U
ACENAPHTHENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
ACENAPHTHYLENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
ANTHRACENE	75	U	2400		2.0	U	2.0	U	2.0	U	2.0	U
BENZIDINE	1100	U	1100	U	30	U	30	U	30	U	30	U
BENZO(A)ANTHRACENE	150	U	14000		4.0	U	4.0	U	4.0	U	4.0	U
BENZO(A)PYRENE	75	U	9700		2.0	U	2.0	U	2.0	U	2.0	U
BENZO(B)FLUORANTHENE	75	U	11000		2.0	U	2.0	U	2.0	U	2.0	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350019		86350020		86350021		86350022		86350023		86350024	
Client Identification	SD-3		SD-4**		SW-5 **		SW-6**		SW-7**		SW-8	
Matrix Type	SEDIMENTS		SEDIMENTS		WATER		WATER		WATER		WATER	
BENZO(G,H,I)PERYLENE	150	U	6100		4.0	U	4.0	U	4.0	U	4.0	U
BENZO(K)FLUORANTHENE	75	U	4700		2.0	U	2.0	U	2.0	U	2.0	U
BENZYL BUTYL PHTHALATE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-CHLOROETHOXY)METHANE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-CHLOROETHYL)ETHER	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-CHLOROISOPROPYL)ETHER	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-ETHYLHEXYL)PHTHALATE	150	U	3000		4.0	U	4.0	U	4.0	U	4.0	U
CHRYSENE	75	U	13000		2.0	U	2.0	U	2.0	U	2.0	U
DI-N-BUTYL PHTHALATE	60	U	170		1.6	U	1.6	U	1.6	U	4.4	
DI-N-OCTYL PHTHALATE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
DIBENZO(A,H)ANTHRACENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
DIETHYL PHTHALATE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
DIMETHYL PHTHALATE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
FLUORENE	75	U	1600		2.0	U	2.0	U	2.0	U	2.0	U
FLUOROANTHENE	75	U	18000		2.0	U	2.0	U	2.0	U	2.0	U
HEXACHLOROBENZENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
HEXACHLOROBUTADIENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
HEXACHLOROCYCLOPENTADIENE	750	U	750	U	20	U	20	U	20	U	20	U
HEXACHLOROETHANE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
INDENO(1,2,3-C,D)PYRENE	75	U	5800		2.0	U	2.0	U	2.0	U	2.0	U
ISOPHORONE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
N-NITROSODIPHENYLAMINE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
N-NITROSODIPROPYLAMINE	750	U	750	U	20	U	20	U	20	U	20	U
NAPHTHALENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
NITROBENZENE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
PENTACHLOROPHENOL	750	U	750	U	20	U	20	U	20	U	20	U
PHENANTHRENE	75	U	16000		2.0	U	2.0	U	2.0	U	2.0	U
PHENOL	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
PYRENE	76		17000		2.0	U	2.0	U	2.0	U	2.0	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350019		86350020		86350021	86350022	86350023	86350024
Client Identification	SD-3		SD-4 **		SW-5**	SW-6 **	SW-7**	SW-8
Matrix Type	SEDIMENTS		SEDIMENTS		WATER	WATER	WATER	WATER
	UG/KG		UG/KG					
VOLATILES, PRIORITY POLLUTANTS								
1,1,1-TRICHLOROETHANE	1.9	U	1.9	U	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	3.4	U	3.4	U	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	2.5	U	2.5	U	NR	NR	NR	NR
1,1-DICHLOROETHANE	2.4	U	2.4	U	NR	NR	NR	NR
1,1-DICHLOROETHENE	1.4	U	1.4	U	NR	NR	NR	NR
1,2-DICHLOROETHANE	1.4	U	1.4	U	NR	NR	NR	NR
1,2-DICHLOROPROPANE	3.0	U	3.0	U	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	5.0	U	5.0	U	NR	NR	NR	NR
BENZENE	2.2	U	2.2	U	NR	NR	NR	NR
BROMODICHLOROMETHANE	1.1	U	1.1	U	NR	NR	NR	NR
BROMOFORM	2.4	U	2.4	U	NR	NR	NR	NR
BROMOMETHANE	6.0	U	6.0	U	NR	NR	NR	NR
CARBON TETRACHLORIDE	1.4	U	1.4	U	NR	NR	NR	NR
CHLOROBENZENE	3.0	U	3.0	U	NR	NR	NR	NR
CHLORODIBROMOMETHANE	1.6	U	1.6	U	NR	NR	NR	NR
CHLOROETHANE	2.6	U	2.6	U	NR	NR	NR	NR
CHLOROFORM	0.80	U	0.80	U	NR	NR	NR	NR
CHLOROMETHANE	0.40	U	0.40	U	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	1.0	U	1.0	U	NR	NR	NR	NR
ETHYL BENZENE	3.6	U	3.6	U	NR	NR	NR	NR
METHYLENE CHLORIDE	1.4	U	1.4	U	NR	NR	NR	NR
TETRACHLOROETHENE	2.0	U	2.0	U	NR	NR	NR	NR
TOLUENE	3.0	U	3.0	U	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	0.80	U	0.80	U	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	2.5	U	2.5	U	NR	NR	NR	NR
TRICHLOROETHENE	1.0	U	1.0	U	NR	NR	NR	NR
VINYL CHLORIDE	0.90	U	0.90	U	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350019	86350020	86350021	86350022	86350023	86350024
Client Identification	SD-3	SD-4 **	SW-5**	SW-6 **	SW-7 **	SW-8
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
			UG/L	UG/L	UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	0.03 U	0.31	0.70	0.03 U
1,1,2,2-TETRACHLOROETHANE	NR	NR	0.03 U	0.03 U	0.03 U	0.03 U
1,1,2-TRICHLOROETHANE	NR	NR	0.02 U	0.02 U	0.02 U	0.02 U
1,1-DICHLOROETHANE	NR	NR	0.07 U	0.07 U	0.07 U	0.07 U
1,1-DICHLOROETHENE	NR	NR	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROBENZENE	NR	NR	0.32 U	0.32 U	0.32 U	0.32 U
1,2-DICHLOROETHANE	NR	NR	0.03 U	0.03 U	0.03 U	0.03 U
1,2-DICHLOROPROPANE	NR	NR	0.04 U	0.04 U	0.04 U	0.04 U
1,3-DICHLOROBENZENE	NR	NR	0.15 U	0.15 U	0.15 U	0.15 U
1,4-DICHLOROBENZENE	NR	NR	0.24 U	0.24 U	0.24 U	0.24 U
2-CHLOROETHYL VINYL ETHER	NR	NR	0.13 U	0.13 U	0.13 U	0.13 U
BROMODICHLOROMETHANE	NR	NR	0.10 U	0.10 U	0.10 U	0.10 U
BROMOFORM	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
BROMOMETHANE	NR	NR	1.2 U	1.2 U	1.2 U	1.2 U
CARBON TETRACHLORIDE	NR	NR	0.12 U	0.12 U	0.12 U	0.12 U
CHLOROBENZENE	NR	NR	0.25 U	0.25 U	0.25 U	0.25 U
CHLORODIBROMOMETHANE	NR	NR	0.09 U	0.09 U	0.09 U	0.09 U
CHLOROETHANE	NR	NR	0.52 U	0.52 U	0.52 U	0.52 U
CHLOROFORM	NR	NR	0.05 U	0.05 U	0.05 U	0.05
CHLOROMETHANE	NR	NR	0.08 U	0.08 U	0.08 U	0.08 U
CIS-1,3-DICHLOROPROPENE	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
DICHLORODIFLUOROMETHANE	NR	NR	1.8 U	1.8 U	1.8 U	1.8 U
METHYLENE CHLORIDE	NR	NR	6.6	20	16	4.7
TETRACHLOROETHENE	NR	NR	0.03 U	0.03 U	0.03 U	0.03 U
TRANS-1,2-DICHLOROETHENE	NR	NR	0.10 U	0.10 U	0.10 U	0.10 U
TRANS-1,3-DICHLOROPROPENE	NR	NR	0.34 U	0.34 U	0.34 U	0.34 U
TRICHLOROETHENE	NR	NR	0.12 U	0.12 U	0.12 U	0.12 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350019	86350020	86350021	86350022	86350023	86350024
Client Identification	SD-3	SD-4 **	SW-5 **	SW-6 **	SW-7**	SW-8
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
TRICHLOROFLUOROMETHANE	NR	NR	0.50 U	0.50 U	0.50 U	0.50 U
VINYL CHLORIDE	NR	NR	0.18 U	0.18 U	0.18 U	0.18 U
			UG/L	UG/L	UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	0.40 U	0.40 U	0.40 U	0.40 U
1,3-DICHLOROBENZENE	NR	NR	0.30 U	0.30 U	0.30 U	0.30 U
1,4-DICHLOROBENZENE	NR	NR	0.40 U	0.40 U	0.40 U	0.40 U
BENZENE	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
CHLOROBENZENE	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
ETHYL BENZENE	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
TOLUENE	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
XYLENES, TOTAL	NR	NR	0.60 U	0.60 U	0.60 U	0.60 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350019		86350020		86350021		86350022		86350023		86350024	
Client Identification	SD-3		SD-4**		SW-5**		SW-6**		SW-7**		SW-8	
Matrix Type	SEDIMENTS		SEDIMENTS		WATER		WATER		WATER		WATER	
	MG/KG		MG/KG		UG/L		UG/L		UG/L		UG/L	
PRIORITY POLLUTANT METALS (13) (TOTAL)												
ANTIMONY (TOTAL)	5.0	U	5.0	U	200	U	200	U	200	U	200	U
ARSENIC (TOTAL)	12		4.4		1.0	U	1.0	U	1.0	U	1.0	U
BERYLLIUM (TOTAL)	0.18		0.20		5.0	U	5.0	U	5.0	U	5.0	U
CADMIUM (TOTAL)	0.45		1.7		5.0	U	5.0	U	5.0	U	5.0	U
CHROMIUM (TOTAL)	4.3		12		50	U	50	U	50	U	50	U
COPPER (TOTAL)	10		98		20	U	20	U	20	U	20	U
LEAD (TOTAL)	14		100		100	U	100	U	100	U	100	U
MERCURY-CVAA (TOTAL)	0.067		0.033		0.20	U	0.20	U	0.20	U	0.20	U
NICKEL (TOTAL)	5.3		12		40	U	40	U	40	U	40	U
SELENIUM (TOTAL)	0.62		1.1		2.0	U	2.0	U	2.0	U	2.0	U
SILVER (TOTAL)	0.25	U	0.25	U	10	U	10	U	10	U	10	U
THALLIUM (TOTAL)	0.92	U	0.92	U	100	U	100	U	100	U	100	U
ZINC (TOTAL)	38		89		5.0	U	5.0	U	5.0	U	37	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

FINAL REPORT

Date of Report: 01-may-1987

Laboratory Identification	86350019	86350020	86350021	86350022	86350023	86350024
Client Identification	SD-3	SD-4 **	SW-5**	SW-6 **	SW-7 **	SW-8
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
	MG/KG	MG/KG	MG/L	MG/L	MG/L	MG/L
PETROLEUM HYDROCARBON - IR	43 U	1500	0.50 U	0.50 U	0.50 U	0.50 U
	PERCENT	PERCENT				
MOISTURE, PERCENT	44	31	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350025		86350026		86350027		86350028		86350029		86350030	
Client Identification	SD-5 **		SD-6 **		SD-7**		SD-8		SW-9		SW-10	
Matrix Type	SEDIMENTS		SEDIMENTS		SEDIMENTS		SEDIMENTS		WATER		WATER	
	UG/KG		UG/KG		UG/KG		UG/KG		UG/L		UG/L	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS												
1,2,4-TRICHLOROBENZENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
1,2-DICHLOROBENZENE	300	U	300	U	300	U	300	U	8.0	U	8.0	U
1,2-DIPHENYLHYDRAZINE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
1,3-DICHLOROBENZENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
1,4-DICHLOROBENZENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2,4,6-TRICHLOROPHENOL	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2,4-DICHLOROPHENOL	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2,4-DIMETHYLPHENOL	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2,4-DINITROPHENOL	1000	U	1000	U	1000	U	1000	U	27	U	27	U
2,4-DINITROTOLUENE	300	U	300	U	300	U	300	U	8.0	U	8.0	U
2,6-DINITROTOLUENE	300	U	300	U	300	U	300	U	8.0	U	8.0	U
2-CHLORONAPHTHALENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2-CHLOROPHENOL	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2-NITROPHENOL	450	U	450	U	450	U	450	U	12	U	12	U
3,3'-DICHLOROBENZIDENE	300	U	300	U	300	U	300	U	8.0	U	8.0	U
4,6-DINITRO-2-METHYLPHENOL	1500	U	1500	U	1500	U	1500	U	40	U	40	U
4-BROMOPHENYL PHENYL ETHER	150	U	150	U	150	U	150	U	4.0	U	4.0	U
4-CHLORO-3-METHYLPHENOL	750	U	750	U	750	U	750	U	20	U	20	U
4-CHLOROPHENYL PHENYL ETHER	150	U	150	U	150	U	150	U	4.0	U	4.0	U
4-NITROPHENOL	750	U	750	U	750	U	750	U	20	U	20	U
ACENAPHTHENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
ACENAPHTHYLENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
ANTHRACENE	75	U	75	U	75	U	2200		2.0	U	2.0	U
BENZIDINE	1100	U	1100	U	1100	U	1100	U	30	U	30	U
BENZO(A)ANTHRACENE	190		410		710		8500		4.0	U	6.1	
BENZO(A)PYRENE	75	U	440		560		6800		2.0	U	4.7	
BENZO(B)FLUORANTHENE	75	U	75	U	570		6900		2.0	U	8.1	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350025	86350026	86350027	86350028	86350029	86350030
Client Identification	SD-5 **	SD-6 **	SD-7 **	SD-8	SW-9	SW-10
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
BENZO(G,H,I)PERYLENE	150 U	250	270	4200	4.0 U	4.0 U
BENZO(K)FLUORANTHENE	290	500	420	4700	2.0 U	2.0 U
BENZYL BUTYL PHTHALATE	150 U	150 U	150 U	150 U	4.0 U	4.0 U
BIS(2-CHLOROETHOXY)METHANE	150 U	150 U	150 U	150 U	4.0 U	4.0 U
BIS(2-CHLOROETHYL)ETHER	150 U	150 U	150 U	150 U	4.0 U	4.0 U
BIS(2-CHLOROISOPROPYL)ETHER	150 U	150 U	150 U	150 U	4.0 U	4.0 U
BIS(2-ETHYLHEXYL)PHTHALATE	150 U	150 U	1200	400	17	7.8
CHRYSENE	320	100	720	9000	2.0 U	8.3
DI-N-BUTYL PHTHALATE	60 U	60 U	60 U	79	1.6 U	1.6 U
DI-N-OCTYL PHTHALATE	120	75 U	75 U	100	2.0 U	2.0 U
DIBENZO(A,H)ANTHRACENE	75 U	75 U	75 U	1000	2.0 U	2.0 U
DIETHYL PHTHALATE	75 U	75 U	75 U	75 U	2.0 U	2.0 U
DIMETHYL PHTHALATE	75 U	75 U	75 U	75 U	2.0 U	2.0 U
FLUORENE	75 U	75 U	75 U	580	2.0 U	2.0 U
FLUOROANTHENE	320	960	900	8500	2.0 U	10
HEXACHLOROBENZENE	150 U	150 U	150 U	150 U	4.0 U	4.0 U
HEXACHLOROBUTADIENE	150 U	150 U	150 U	150 U	4.0 U	4.0 U
HEXACHLOROCYCLOPENTADIENE	750 U	750 U	750 U	750 U	20 U	20 U
HEXACHLOROETHANE	300 U	300 U	300 U	300 U	8.0 U	8.0 U
INDENO(1,2,3-C,D)PYRENE	75 U	270	270	4600	2.0 U	2.0 U
ISOPHORONE	150 U	150 U	150 U	150 U	4.0 U	4.0 U
N-NITROSODIPHENYLAMINE	150 U	150 U	150 U	150 U	4.0 U	4.0 U
N-NITROSODIPROPYLAMINE	750 U	750 U	750 U	750 U	20 U	20 U
NAPHTHALENE	75 U	75 U	75 U	90	2.0 U	2.0 U
NITROBENZENE	300 U	300 U	300 U	300 U	8.0 U	8.0 U
PENTACHLOROPHENOL	750 U	750 U	750 U	750 U	20 U	20 U
PHENANTHRENE	120	510	630	9000	2.0 U	6.2
PHENOL	150 U	150 U	150 U	150 U	4.0 U	4.0 U
PYRENE	640	1200	75 U	10000	2.0 U	18

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350025	86350026	86350027	86350028	86350029	86350030
Client Identification	SD-5 **	SD-6**	SD-7**	SD-8	SW-9	SW-10
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
	UG/KG	UG/KG	UG/KG	UG/KG		
VOLATILES, PRIORITY POLLUTANTS						
1,1,1-TRICHLOROETHANE	1.9 U	1.9 U	1.9 U	1.9 U	NR	NR
1,1,2,2-TETRACHLOROETHANE	3.4 U	3.4 U	3.4 U	3.4 U	NR	NR
1,1,2-TRICHLOROETHANE	2.5 U	2.5 U	2.5 U	2.5 U	NR	NR
1,1-DICHLOROETHANE	2.4 U	2.4 U	2.4 U	2.4 U	NR	NR
1,1-DICHLOROETHENE	1.4 U	1.4 U	1.4 U	1.4 U	NR	NR
1,2-DICHLOROETHANE	1.4 U	1.4 U	1.4 U	1.4 U	NR	NR
1,2-DICHLOROPROPANE	3.0 U	3.0 U	3.0 U	3.0 U	NR	NR
2-CHLOROETHYL VINYL ETHER	5.0 U	5.0 U	5.0 U	5.0 U	NR	NR
BENZENE	2.2 U	2.2 U	2.2 U	2.2 U	NR	NR
BROMODICHLOROMETHANE	1.1 U	1.1 U	1.1 U	1.1 U	NR	NR
BROMOFORM	2.4 U	2.4 U	2.4 U	2.4 U	NR	NR
BROMOMETHANE	6.0 U	6.0 U	6.0 U	6.0 U	NR	NR
CARBON TETRACHLORIDE	1.4 U	1.4 U	1.4 U	1.4 U	NR	NR
CHLOROBENZENE	3.0 U	3.0 U	3.0 U	3.0 U	NR	NR
CHLORODIBROMOMETHANE	1.6 U	1.6 U	1.6 U	1.6 U	NR	NR
CHLOROETHANE	2.6 U	2.6 U	2.6 U	2.6 U	NR	NR
CHLOROFORM	0.80 U	0.80 U	0.80 U	0.80 U	NR	NR
CHLOROMETHANE	0.40 U	0.40 U	0.40 U	0.40 U	NR	NR
CIS-1,3-DICHLOROPROPENE	1.0 U	1.0 U	1.0 U	1.0 U	NR	NR
ETHYL BENZENE	3.6 U	3.6 U	3.6 U	3.6 U	NR	NR
METHYLENE CHLORIDE	1.4 U	1.4 U	1.4 U	1.4 U	NR	NR
TETRACHLOROETHENE	2.0 U	2.0 U	2.0 U	2.0 U	NR	NR
TOLUENE	3.0 U	3.0 U	3.0 U	3.0 U	NR	NR
TRANS-1,2-DICHLOROETHENE	0.80 U	0.80 U	0.80 U	0.80 U	NR	NR
TRANS-1,3-DICHLOROPROPENE	2.5 U	2.5 U	2.5 U	2.5 U	NR	NR
TRICHLOROETHENE	1.0 U	1.0 U	1.0 U	1.0 U	NR	NR
VINYL CHLORIDE	0.90 U	0.90 U	0.90 U	0.90 U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350025	86350026	86350027	86350028	86350029	86350030
Client Identification	SD-5 **	SD-6 **	SD-7**	SD-8	SW-9	SW-10
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
					UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	0.03 U	0.03 U
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	0.03 U	0.03 U
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	0.02 U	0.02 U
1,1-DICHLOROETHANE	NR	NR	NR	NR	0.07 U	0.07 U
1,1-DICHLOROETHENE	NR	NR	NR	NR	0.13 U	0.13 U
1,2-DICHLOROBENZENE	NR	NR	NR	NR	0.32 U	0.32 U
1,2-DICHLOROETHANE	NR	NR	NR	NR	0.03 U	0.03 U
1,2-DICHLOROPROPANE	NR	NR	NR	NR	0.04 U	0.04 U
1,3-DICHLOROBENZENE	NR	NR	NR	NR	0.15 U	0.15 U
1,4-DICHLOROBENZENE	NR	NR	NR	NR	0.24 U	0.24 U
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	0.13 U	0.13 U
BROMODICHLOROMETHANE	NR	NR	NR	NR	0.10 U	0.10 U
BROMOFORM	NR	NR	NR	NR	0.20 U	0.20 U
BROMOMETHANE	NR	NR	NR	NR	1.2 U	1.2 U
CARBON TETRACHLORIDE	NR	NR	NR	NR	0.12 U	0.12 U
CHLOROBENZENE	NR	NR	NR	NR	0.25 U	0.25 U
CHLORODIBROMOMETHANE	NR	NR	NR	NR	0.09 U	0.09 U
CHLOROETHANE	NR	NR	NR	NR	0.52 U	0.52 U
CHLOROFORM	NR	NR	NR	NR	0.05 U	0.05 U
CHLOROMETHANE	NR	NR	NR	NR	0.08 U	0.08 U
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	0.20 U	0.20 U
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	1.8 U	1.8 U
METHYLENE CHLORIDE	NR	NR	NR	NR	0.44	4.6
TETRACHLOROETHENE	NR	NR	NR	NR	0.03 U	0.03 U
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	0.10 U	0.10 U
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	0.34 U	0.34 U
TRICHLOROETHENE	NR	NR	NR	NR	0.12 U	0.12 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350025	86350026	86350027	86350028	86350029	86350030
Client Identification	SD-5 **	SD-6**	SD-7**	SD-8	SW-9	SW-10
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	0.50 U	0.50 U
VINYL CHLORIDE	NR	NR	NR	NR	0.18 U	0.18 U
					UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	0.40 U	0.40 U
1,3-DICHLOROBENZENE	NR	NR	NR	NR	0.30 U	0.30 U
1,4-DICHLOROBENZENE	NR	NR	NR	NR	0.40 U	0.40 U
BENZENE	NR	NR	NR	NR	0.20 U	0.20 U
CHLOROBENZENE	NR	NR	NR	NR	0.20 U	0.20 U
ETHYL BENZENE	NR	NR	NR	NR	0.20 U	0.20 U
TOLUENE	NR	NR	NR	NR	0.20 U	0.20 U
XYLENES, TOTAL	NR	NR	NR	NR	0.60 U	0.60 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350025	86350026	86350027	86350028	86350029	86350030
Client Identification	SD-5 **	SD-6 **	SD-7 **	SD-8	SW-9	SW-10
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
PRIORITY POLLUTANT METALS (13) (TOTAL)						
ANTIMONY (TOTAL)	5.0 U	4.9 U	5.0 U	5.0 U	200 U	200 U
ARSENIC (TOTAL)	11	3.3	2.7	6.5	1.0 U	1.0 U
BERYLLIUM (TOTAL)	0.55	0.22	0.23	0.43	5.0 U	5.0 U
CADMIUM (TOTAL)	0.84	0.59	0.33	4.0	5.0 U	5.0 U
CHROMIUM (TOTAL)	13	7.5	7.1	16	50 U	50 U
COPPER (TOTAL)	12	17	2.7	22	41	61
LEAD (TOTAL)	7.3	6.3	3.6	75	100 U	100 U
MERCURY-CVAA (TOTAL)	0.020 U	0.020 U	0.063	0.064	0.20 U	0.20 U
NICKEL (TOTAL)	13	10	5.4	15	40 U	40 U
SELENIUM (TOTAL)	3.1	0.82	2.8	3.7	2.0 U	2.0 U
SILVER (TOTAL)	0.25 U	0.25 U	0.25 U	0.25 U	10 U	10 U
THALLIUM (TOTAL)	0.92 U	0.92 U	0.92 U	0.92 U	100 U	100 U
ZINC (TOTAL)	61	28	46	97	110	150

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350025	86350026	86350027	86350028	86350029	86350030
Client Identification	SD-5 **	SD-6 **	SD-7 **	SD-8	SW-9	SW-10
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
	MG/KG	MG/KG	MG/KG	MG/KG	MG/L	MG/L
PETROLEUM HYDROCARBON - IR	35	37 U	31 U	300	0.50 U	0.50 U
	PERCENT	PERCENT	PERCENT	PERCENT		
MOISTURE, PERCENT	34	35	26	39	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350031		86350032		86350033		86350034		86350035		86350036	
Client Identification	SW-11		SW-12		SD-9		SD-10		SD-11		SD-12	
Matrix Type	WATER		WATER		SEDIMENTS		SEDIMENTS		SEDIMENTS		SEDIMENTS	
	UG/L		UG/L		UG/KG		UG/KG		UG/KG		UG/KG	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS												
1,2,4-TRICHLOROBENZENE	4.0	U	4.0	U	150	U	150	U	150	U	150	U
1,2-DICHLOROBENZENE	8.0	U	8.0	U	300	U	300	U	300	U	300	U
1,2-DIPHENYLHYDRAZINE	4.0	U	4.0	U	150	U	150	U	150	U	150	U
1,3-DICHLOROBENZENE	4.0	U	4.0	U	150	U	150	U	150	U	150	U
1,4-DICHLOROBENZENE	4.0	U	4.0	U	150	U	150	U	150	U	150	U
2,4,6-TRICHLOROPHENOL	4.0	U	4.0	U	150	U	150	U	150	U	150	U
2,4-DICHLOROPHENOL	4.0	U	4.0	U	150	U	150	U	150	U	150	U
2,4-DIMETHYLPHENOL	4.0	U	4.0	U	150	U	150	U	150	U	150	U
2,4-DINITROPHENOL	27	U	27	U	1000	U	1000	U	1000	U	1000	U
2,4-DINITROTOLUENE	8.0	U	8.0	U	300	U	300	U	300	U	300	U
2,6-DINITROTOLUENE	8.0	U	8.0	U	300	U	300	U	300	U	300	U
2-CHLORONAPHTHALENE	4.0	U	4.0	U	150	U	150	U	150	U	150	U
2-CHLOROPHENOL	4.0	U	4.0	U	150	U	150	U	150	U	150	U
2-NITROPHENOL	12	U	12	U	450	U	450	U	450	U	450	U
3,3'-DICHLOROBENZIDENE	8.0	U	8.0	U	300	U	300	U	300	U	300	U
4,6-DINITRO-2-METHYLPHENOL	40	U	40	U	1500	U	1500	U	1500	U	1500	U
4-BROMOPHENYL PHENYL ETHER	4.0	U	4.0	U	150	U	150	U	150	U	150	U
4-CHLORO-3-METHYLPHENOL	20	U	20	U	750	U	750	U	750	U	750	U
4-CHLOROPHENYL PHENYL ETHER	4.0	U	4.0	U	150	U	150	U	150	U	150	U
4-NITROPHENOL	20	U	20	U	750	U	750	U	750	U	750	U
ACENAPHTHENE	2.0	U	2.0	U	75	U	75	U	75	U	75	U
ACENAPHTHYLENE	2.0	U	2.0	U	75	U	75	U	75	U	75	U
ANTHRACENE	2.0	U	2.0	U	75	U	310		6500		81	
BENZIDINE	30	U	30	U	1100	U	1100	U	1100	U	1100	U
BENZO(A)ANTHRACENE	4.0	U	4.0	U	150	U	1500		21000		480	
BENZO(A)PYRENE	2.0	U	2.0	U	75	U	1100		20000		390	
BENZO(B)FLUORANTHENE	2.0	U	2.0	U	75	U	1700		22000		860	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350031	86350032	86350033	86350034	86350035	86350036
Client Identification	SW-11	SW-12	SD-9	SD-10	SD-11	SD-12
Matrix Type	WATER	WATER	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS
BENZO(G,H,I)PERYLENE	4.0 U	4.0 U	150 U	390	13000	230
BENZO(K)FLUORANTHENE	2.0 U	2.0 U	75 U	820	11000	75 U
BENZYL BUTYL PHTHALATE	4.0 U	4.0 U	150 U	150 U	150 U	150 U
BIS(2-CHLOROETHOXY)METHANE	4.0 U	4.0 U	150 U	150 U	150 U	150 U
BIS(2-CHLOROETHYL)ETHER	4.0 U	4.0 U	150 U	150 U	150 U	150 U
BIS(2-CHLOROISOPROPYL)ETHER	4.0 U	4.0 U	150 U	150 U	150 U	150 U
BIS(2-ETHYLHEXYL)PHTHALATE	4.0 U	4.0 U	150 U	150 U	150 U	460
CHRYSENE	2.0 U	3.2	75 U	1300	75 U	770
DI-N-BUTYL PHTHALATE	1.6 U	1.6 U	110	60 U	60 U	110
DI-N-OCTYL PHTHALATE	2.0 U	2.0 U	75 U	110	2400	1200
DIBENZO(A,H)ANTHRACENE	2.0 U	2.0 U	75 U	75 U	75 U	75 U
DIETHYL PHTHALATE	2.0 U	2.0 U	75 U	75 U	75 U	75 U
DIMETHYL PHTHALATE	2.0 U	2.0 U	75 U	75 U	75 U	75 U
FLUORENE	2.0 U	2.0 U	75 U	110	2400	75 U
FLUOROANTHENE	2.0 U	7.1	970	3600	37000	1600
HEXACHLOROBENZENE	4.0 U	4.0 U	150 U	150 U	150 U	150 U
HEXACHLOROBUTADIENE	4.0 U	4.0 U	150 U	150 U	150 U	150 U
HEXACHLOROCYCLOPENTADIENE	20 U	20 U	750 U	750 U	750 U	750 U
HEXACHLOROETHANE	8.0 U	8.0 U	300 U	300 U	300 U	300 U
INDENO(1,2,3-C,D)PYRENE	2.0 U	2.0 U	75 U	430	12000	75 U
ISOPHORONE	4.0 U	4.0 U	150 U	150 U	150 U	150 U
N-NITROSODIPHENYLAMINE	4.0 U	4.0 U	150 U	150 U	150 U	150 U
N-NITROSODIPROPYLAMINE	20 U	20 U	750 U	750 U	750 U	750 U
NAPHTHALENE	2.0 U	2.0 U	75 U	75 U	390	75 U
NITROBENZENE	8.0 U	8.0 U	300 U	300 U	300 U	300 U
PENTACHLOROPHENOL	20 U	20 U	750 U	750 U	750 U	750 U
PHENANTHRENE	2.0 U	3.3	440	1800	3000	560
PHENOL	4.0 U	4.0 U	150 U	150 U	150 U	150 U
PYRENE	2.0 U	5.6	710	2400	32000	1400

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350031	86350032	86350033	86350034	86350035	86350036
Client Identification	SW-11	SW-12	SD-9	SD-10	SD-11	SD-12
Matrix Type	WATER	WATER	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS
			UG/KG	UG/KG	UG/KG	UG/KG
VOLATILES, PRIORITY POLLUTANTS						
1,1,1-TRICHLOROETHANE	NR	NR	1.9 U	1.9 U	1.9 U	1.9 U
1,1,2,2-TETRACHLOROETHANE	NR	NR	3.4 U	3.4 U	3.4 U	3.4 U
1,1,2-TRICHLOROETHANE	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U
1,1-DICHLOROETHANE	NR	NR	2.4 U	2.4 U	2.4 U	2.4 U
1,1-DICHLOROETHENE	NR	NR	1.4 U	1.4 U	1.4 U	1.4 U
1,2-DICHLOROETHANE	NR	NR	1.4 U	1.4 U	1.4 U	1.4 U
1,2-DICHLOROPROPANE	NR	NR	3.0 U	3.0 U	3.0 U	3.0 U
2-CHLOROETHYL VINYL ETHER	NR	NR	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	NR	NR	2.2 U	2.2 U	2.2 U	2.2 U
BROMODICHLOROMETHANE	NR	NR	1.1 U	1.1 U	1.1 U	1.1 U
BROMOFORM	NR	NR	2.4 U	2.4 U	2.4 U	2.4 U
BROMOMETHANE	NR	NR	6.0 U	6.0 U	6.0 U	6.0 U
CARBON TETRACHLORIDE	NR	NR	1.4 U	1.4 U	1.4 U	1.4 U
CHLOROBENZENE	NR	NR	3.0 U	3.0 U	3.0 U	3.0 U
CHLORODIBROMOMETHANE	NR	NR	1.6 U	1.6 U	1.6 U	1.6 U
CHLOROETHANE	NR	NR	2.6 U	2.6 U	2.6 U	2.6 U
CHLOROFORM	NR	NR	0.80 U	0.80 U	0.80 U	0.80 U
CHLOROMETHANE	NR	NR	0.40 U	0.40 U	0.40 U	0.40 U
CIS-1,3-DICHLOROPROPENE	NR	NR	1.0 U	1.0 U	1.0 U	1.0 U
ETHYL BENZENE	NR	NR	3.6 U	3.6 U	3.6 U	3.6 U
METHYLENE CHLORIDE	NR	NR	1.4 U	1.4 U	1.4 U	1.4 U
TETRACHLOROETHENE	NR	NR	2.0 U	2.0 U	2.0 U	2.0 U
TOLUENE	NR	NR	3.0 U	3.0 U	3.0 U	3.0 U
TRANS-1,2-DICHLOROETHENE	NR	NR	0.80 U	0.80 U	0.80 U	0.80 U
TRANS-1,3-DICHLOROPROPENE	NR	NR	2.5 U	2.5 U	2.5 U	2.5 U
TRICHLOROETHENE	NR	NR	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	NR	NR	0.90 U	0.90 U	0.90 U	0.90 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350031	86350032	86350033	86350034	86350035	86350036
Client Identification	SW-11	SW-12	SD-9	SD-10	SD-11	SD-12
Matrix Type	WATER	WATER	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS
	UG/L	UG/L				
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	3.1	0.03 U	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	0.03 U	0.03 U	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	0.02 U	0.02 U	NR	NR	NR	NR
1,1-DICHLOROETHANE	0.07 U	0.07 U	NR	NR	NR	NR
1,1-DICHLOROETHENE	0.13 U	0.13 U	NR	NR	NR	NR
1,2-DICHLOROBENZENE	0.32 U	0.32 U	NR	NR	NR	NR
1,2-DICHLOROETHANE	0.03 U	0.03 U	NR	NR	NR	NR
1,2-DICHLOROPROPANE	0.04 U	0.04 U	NR	NR	NR	NR
1,3-DICHLOROBENZENE	0.15 U	0.15 U	NR	NR	NR	NR
1,4-DICHLOROBENZENE	0.24 U	0.24 U	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	0.13 U	0.13 U	NR	NR	NR	NR
BROMODICHLOROMETHANE	0.10 U	0.10 U	NR	NR	NR	NR
BROMOFORM	0.20 U	0.20 U	NR	NR	NR	NR
BROMOMETHANE	1.2 U	1.2 U	NR	NR	NR	NR
CARBON TETRACHLORIDE	0.12 U	0.12 U	NR	NR	NR	NR
CHLOROBENZENE	0.25 U	0.25 U	NR	NR	NR	NR
CHLORODIBROMOMETHANE	0.09 U	0.09 U	NR	NR	NR	NR
CHLOROETHANE	0.52 U	0.52 U	NR	NR	NR	NR
CHLOROFORM	0.05 U	0.05 U	NR	NR	NR	NR
CHLOROMETHANE	0.08 U	0.08 U	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	0.20 U	0.20 U	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	1.8 U	1.8 U	NR	NR	NR	NR
METHYLENE CHLORIDE	0.41	15	NR	NR	NR	NR
TETRACHLOROETHENE	0.03 U	0.03 U	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	0.10 U	0.10 U	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	0.34 U	0.34 U	NR	NR	NR	NR
TRICHLOROETHENE	0.12 U	0.12 U	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350031	86350032	86350033	86350034	86350035	86350036
Client Identification	SW-11	SW-12	SD-9	SD-10	SD-11	SD-12
Matrix Type	WATER	WATER	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS
TRICHLOROFLUOROMETHANE	0.50 U	0.53 NC	NR	NR	NR	NR
VINYL CHLORIDE	0.18 U	0.18 U	NR	NR	NR	NR
	UG/L	UG/L				
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	0.40 U	0.40 U	NR	NR	NR	NR
1,3-DICHLOROBENZENE	0.30 U	0.30 U	NR	NR	NR	NR
1,4-DICHLOROBENZENE	0.40 U	0.40 U	NR	NR	NR	NR
BENZENE	0.20 U	0.20 U	NR	NR	NR	NR
CHLOROBENZENE	0.20 U	0.20 U	NR	NR	NR	NR
ETHYL BENZENE	0.20 U	0.20 U	NR	NR	NR	NR
TOLUENE	0.20 U	0.20 U	NR	NR	NR	NR
XYLENES, TOTAL	0.60 U	0.60 U	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350031		86350032		86350033		86350034		86350035		86350036	
Client Identification	SW-11		SW-12		SD-9		SD-10		SD-11		SD-12	
Matrix Type	WATER		WATER		SEDIMENTS		SEDIMENTS		SEDIMENTS		SEDIMENTS	
	UG/L		UG/L		MG/KG		MG/KG		MG/KG		MG/KG	
PRIORITY POLLUTANT METALS (13) (TOTAL)												
ANTIMONY (TOTAL)	200	U	200	U	5.0	U	5.0	U	5.0	U	5.0	U
ARSENIC (TOTAL)	1.0	U	1.0	U	3.9		5.7		8.0		5.3	
BERYLLIUM (TOTAL)	5.0	U	5.0	U	0.28		0.32		0.45		0.40	
CADMIUM (TOTAL)	5.0	U	5.0	U	0.50		0.62		6.6		1.9	
CHROMIUM (TOTAL)	50	U	50	U	9.9		11		25		11	
COPPER (TOTAL)	20	U	40		10		13		34		15	
LEAD (TOTAL)	100	U	100	U	27		33		150		32	
MERCURY-CVAA (TOTAL)	0.20	U	0.20	U	0.053		0.082		0.044		0.020	U
NICKEL (TOTAL)	40	U	40	U	6.7		10		21		8.6	
SELENIUM (TOTAL)	2.0	U	2.0	U	3.8		3.7		4.3		6.9	
SILVER (TOTAL)	10	U	10	U	0.25	U	0.25	U	0.25	U	0.25	U
THALLIUM (TOTAL)	100	U	100	U	0.92	U	0.92	U	0.92	U	1.2	U
ZINC (TOTAL)	46		700		36		48		330		190	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350031	86350032	86350033	86350034	86350035	86350036
Client Identification	SW-11	SW-12	SD-9	SD-10	SD-11	SD-12
Matrix Type	WATER	WATER	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS
	MG/L	MG/L	MG/KG	MG/KG	MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	0.50 U	0.50 U	36 U	39 U	720	49 U
			PERCENT	PERCENT	PERCENT	PERCENT
MOISTURE, PERCENT	NR	NR	37	39	62	54

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350037		86350038		86350039		86350040		86350041		86350042	
Client Identification	SW-13		SW-14**		SW-15		SW-16		SD-13		SD-14 **	
Matrix Type	WATER		WATER		WATER		WATER		SEDIMENTS		SEDIMENTS	
	UG/L		UG/L		UG/L		UG/L		UG/KG		UG/KG	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS												
1,2,4-TRICHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
1,2-DICHLOROBENZENE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
1,2-DIPHENYLHYDRAZINE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
1,3-DICHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
1,4-DICHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2,4,6-TRICHLOROPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2,4-DICHLOROPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2,4-DIMETHYLPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2,4-DINITROPHENOL	27	U	27	U	27	U	27	U	1000	U	1000	U
2,4-DINITROTOLUENE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
2,6-DINITROTOLUENE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
2-CHLORONAPHTHALENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2-CHLOROPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
2-NITROPHENOL	12	U	12	U	12	U	12	U	450	U	450	U
3,3'-DICHLOROBENZIDENE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
4,6-DINITRO-2-METHYLPHENOL	40	U	40	U	40	U	40	U	1500	U	1500	U
4-BROMOPHENYL PHENYL ETHER	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
4-CHLORO-3-METHYLPHENOL	20	U	20	U	20	U	20	U	750	U	750	U
4-CHLOROPHENYL PHENYL ETHER	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
4-NITROPHENOL	20	U	20	U	20	U	20	U	750	U	750	U
ACENAPHTHENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
ACENAPHTHYLENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
ANTHRACENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
BENZIDINE	30	U	30	U	30	U	30	U	1100	U	1100	U
BENZO(A)ANTHRACENE	4.0	U	4.0	U	4.0	U	4.0	U	760		150	U
BENZO(A)PYRENE	2.0	U	2.0	U	2.0	U	2.0	U	780		75	U
BENZO(B)FLUORANTHENE	2.0	U	2.0	U	2.0	U	2.0	U	210		120	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350037		86350038		86350039		86350040		86350041		86350042	
Client Identification	SW-13		SW-14 **		SW-15		SW-16		SD-13		SD-14 **	
Matrix Type	WATER		WATER		WATER		WATER		SEDIMENTS		SEDIMENTS	
BENZO(G,H,I)PERYLENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
BENZO(K)FLUORANTHENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
BENZYL BUTYL PHTHALATE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
BIS(2-CHLOROETHOXY)METHANE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
BIS(2-CHLOROETHYL)ETHER	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
BIS(2-CHLOROISOPROPYL)ETHER	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
BIS(2-ETHYLHEXYL)PHTHALATE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
CHRYSENE	2.0	U	2.0	U	2.0	U	2.0	U	180		140	
DI-N-BUTYL PHTHALATE	1.6	U	1.6	U	1.6	U	1.6	U	60	U	66	
DI-N-OCTYL PHTHALATE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	81	
DIBENZO(A,H)ANTHRACENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
DIETHYL PHTHALATE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
DIMETHYL PHTHALATE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
FLUORENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
FLUOROANTHENE	2.0	U	2.0	U	2.0	U	2.0	U	220		180	
HEXACHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
HEXACHLOROBUTADIENE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
HEXACHLOROCYCLOPENTADIENE	20	U	20	U	20	U	20	U	750	U	750	U
HEXACHLOROETHANE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
INDENO(1,2,3-C,D)PYRENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
ISOPHORONE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
N-NITROSODIPHENYLAMINE	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
N-NITROSODIPROPYLAMINE	20	U	20	U	20	U	20	U	750	U	750	U
NAPHTHALENE	2.0	U	2.0	U	2.0	U	2.0	U	75	U	75	U
NITROBENZENE	8.0	U	8.0	U	8.0	U	8.0	U	300	U	300	U
PENTACHLOROPHENOL	20	U	20	U	20	U	20	U	750	U	750	U
PHENANTHRENE	2.0	U	2.0	U	2.0	U	2.0	U	100		81	
PHENOL	4.0	U	4.0	U	4.0	U	4.0	U	150	U	150	U
PYRENE	2.0	U	2.0	U	2.0	U	2.0	U	280		210	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350037	86350038	86350039	86350040	86350041	86350042
Client Identification	SW-13	SW-14**	SW-15	SW-16	SD-13	SD-14 **
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
					UG/KG	UG/KG
VOLATILES, PRIORITY POLLUTANTS						
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	1.9 U	1.9 U
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	3.4 U	3.4 U
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	2.5 U	2.5 U
1,1-DICHLOROETHANE	NR	NR	NR	NR	2.4 U	2.4 U
1,1-DICHLOROETHENE	NR	NR	NR	NR	1.4 U	1.4 U
1,2-DICHLOROETHANE	NR	NR	NR	NR	1.4 U	1.4 U
1,2-DICHLOROPROPANE	NR	NR	NR	NR	3.0 U	3.0 U
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	5.0 U	5.0 U
BENZENE	NR	NR	NR	NR	2.2 U	2.2 U
BROMODICHLOROMETHANE	NR	NR	NR	NR	1.1 U	1.1 U
BROMOFORM	NR	NR	NR	NR	2.4 U	2.4 U
BROMOMETHANE	NR	NR	NR	NR	6.0 U	6.0 U
CARBON TETRACHLORIDE	NR	NR	NR	NR	1.4 U	1.4 U
CHLOROBENZENE	NR	NR	NR	NR	3.0 U	3.0 U
CHLORODIBROMOMETHANE	NR	NR	NR	NR	1.6 U	1.6 U
CHLOROETHANE	NR	NR	NR	NR	2.6 U	2.6 U
CHLOROFORM	NR	NR	NR	NR	0.80 U	0.80 U
CHLOROMETHANE	NR	NR	NR	NR	0.40 U	0.40 U
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	1.0 U	1.0 U
ETHYL BENZENE	NR	NR	NR	NR	3.6 U	3.6 U
METHYLENE CHLORIDE	NR	NR	NR	NR	1.4 U	1.4 U
TETRACHLOROETHENE	NR	NR	NR	NR	2.0 U	2.0 U
TOLUENE	NR	NR	NR	NR	3.0 U	3.0 U
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	0.80 U	0.80 U
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	2.5 U	2.5 U
TRICHLOROETHENE	NR	NR	NR	NR	1.0 U	1.0 U
VINYL CHLORIDE	NR	NR	NR	NR	0.90 U	0.90 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350037		86350038		86350039		86350040		86350041	86350042
Client Identification	SW-13		SW-14 **		SW-15		SW-16		SD-13	SD-14 **
Matrix Type	WATER		WATER		WATER		WATER		SEDIMENTS	SEDIMENTS
	UG/L		UG/L		UG/L		UG/L			
PURGEABLE HALOCARBONS (METH 601 CMPDS)										
1,1,1-TRICHLOROETHANE	2.7		2.1		0.03	U	0.03	U	NR	NR
1,1,2,2-TETRACHLOROETHANE	0.03	U	0.03	U	0.03	U	0.03	U	NR	NR
1,1,2-TRICHLOROETHANE	0.02	U	0.02	U	0.02	U	0.02	U	NR	NR
1,1-DICHLOROETHANE	0.07	U	0.07	U	0.07	U	0.07	U	NR	NR
1,1-DICHLOROETHENE	0.13	U	0.13	U	0.13	U	0.13	U	NR	NR
1,2-DICHLOROBENZENE	0.32	U	0.32	U	0.32	U	0.32	U	NR	NR
1,2-DICHLOROETHANE	0.03	U	0.03	U	0.03	U	0.03	U	NR	NR
1,2-DICHLOROPROPANE	0.04	U	0.04	U	0.04	U	0.04	U	NR	NR
1,3-DICHLOROBENZENE	0.15	U	0.15	U	0.15	U	0.15	U	NR	NR
1,4-DICHLOROBENZENE	0.24	U	0.24	U	0.24	U	0.24	U	NR	NR
2-CHLOROETHYL VINYL ETHER	0.13	U	0.13	U	0.13	U	0.13	U	NR	NR
BROMODICHLOROMETHANE	0.10	U	0.10	U	0.10	U	0.10	U	NR	NR
BROMOFORM	0.20	U	0.20	U	0.20	U	0.20	U	NR	NR
BROMOMETHANE	1.2	U	1.2	U	1.2	U	1.2	U	NR	NR
CARBON TETRACHLORIDE	0.12	U	0.12	U	0.12	U	0.12	U	NR	NR
CHLOROBENZENE	0.25	U	0.25	U	0.25	U	0.25	U	NR	NR
CHLORODIBROMOMETHANE	0.09	U	0.09	U	0.09	U	0.09	U	NR	NR
CHLOROETHANE	0.52	U	0.52	U	0.52	U	0.52	U	NR	NR
CHLOROFORM	0.05	U	0.05	U	0.05	U	0.05	U	NR	NR
CHLOROMETHANE	0.08	U	0.08	U	0.08	U	0.08	U	NR	NR
CIS-1,3-DICHLOROPROPENE	0.20	U	0.20	U	0.20	U	0.20	U	NR	NR
DICHLORODIFLUOROMETHANE	1.8	U	1.8	U	1.8	U	1.8	U	NR	NR
METHYLENE CHLORIDE	5.0		5.9		62		67		NR	NR
TETRACHLOROETHENE	0.03	U	0.03	U	0.03	U	0.03	U	NR	NR
TRANS-1,2-DICHLOROETHENE	0.10	U	0.10	U	0.10	U	0.10	U	NR	NR
TRANS-1,3-DICHLOROPROPENE	0.34	U	0.34	U	0.34	U	0.34	U	NR	NR
TRICHLOROETHENE	0.12	U	0.12	U	0.12	U	0.12	U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350037	86350038	86350039	86350040	86350041	86350042
Client Identification	SW-13	SW-14 **	SW-15	SW-16	SD-13	SD-14 **
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
TRICHLOROFLUOROMETHANE	0.50 U	0.50 U	0.50 U	0.50 U	NR	NR
VINYL CHLORIDE	0.18 U	0.18 U	0.18 U	0.18 U	NR	NR
	UG/L	UG/L	UG/L	UG/L		
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U	0.40 U	NR	NR
1,3-DICHLOROBENZENE	0.30 U	0.30 U	0.30 U	0.30 U	NR	NR
1,4-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U	0.40 U	NR	NR
BENZENE	0.20 U	0.20 U	0.20 U	0.20 U	NR	NR
CHLOROBENZENE	0.20 U	0.20 U	0.20 U	0.20 U	NR	NR
ETHYL BENZENE	0.20 U	0.20 U	0.20 U	0.20 U	NR	NR
TOLUENE	0.20 U	0.20 U	0.20 U	0.20 U	NR	NR
XYLENES, TOTAL	0.60 U	0.60 U	0.60 U	0.60 U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
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Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350037		86350038		86350039		86350040		86350041		86350042	
Client Identification	SW-13		SW-14 **		SW-15		SW-16		SD-13		SD-14 **	
Matrix Type	WATER		WATER		WATER		WATER		SEDIMENTS		SEDIMENTS	
	UG/L		UG/L		UG/L		UG/L		MG/KG		MG/KG	
PRIORITY POLLUTANT METALS (13) (TOTAL)												
ANTIMONY (TOTAL)	200	U	200	U	200	U	200	U	5.0	U	5.0	U
ARSENIC (TOTAL)	1.0	U	1.0	U	1.0	U	1.0	U	3.4		3.4	
BERYLLIUM (TOTAL)	5.0	U	5.0	U	5.0	U	5.0	U	0.14	U	0.15	
CADMIUM (TOTAL)	5.0	U	5.0	U	5.0	U	5.0	U	0.30		0.23	
CHROMIUM (TOTAL)	50	U	50	U	50	U	50	U	3.1		5.1	
COPPER (TOTAL)	20	U	20	U	20	U	20	U	3.7		8.2	
LEAD (TOTAL)	100	U	100	U	100	U	100	U	5.8		3.4	
MERCURY-CVAA (TOTAL)	0.20	U	0.20	U	0.20	U	0.20	U	0.020	U	0.020	U
NICKEL (TOTAL)	40	U	40	U	40	U	40	U	2.3		6.0	
SELENIUM (TOTAL)	2.0	U	2.0	U	2.0	U	2.0	U	0.20	U	0.20	U
SILVER (TOTAL)	10	U	10	U	10	U	10	U	0.25	U	0.25	U
THALLIUM (TOTAL)	100	U	100	U	100	U	100	U	1.2	U	1.2	U
ZINC (TOTAL)	15		5.0	U	5.0	U	5.0	U	28		18	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350037	86350038	86350039	86350040	86350041	86350042
Client Identification	SW-13	SW-14 **	SW-15	SW-16	SD-13	SD-14 **
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
	MG/L	MG/L	MG/L	MG/L	MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	0.50 U	0.50 U	0.50 U	0.50 U	32 U	31 U
					PERCENT	PERCENT
MOISTURE, PERCENT	NR	NR	NR	NR	31	21

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350043		86350044		86350045		86350046		86350047		86350048	
Client Identification	SD-15		SD-16		SW-18*		SW-19		SW-20*		SW-21*	
Matrix Type	SEDIMENTS		SEDIMENTS		WATER		WATER		WATER		WATER	
	UG/KG		UG/KG		UG/L		UG/L		UG/L		UG/L	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS												
1,2,4-TRICHLOROBENZENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
1,2-DICHLOROBENZENE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
1,2-DIPHENYLHYDRAZINE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
1,3-DICHLOROBENZENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
1,4-DICHLOROBENZENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4,6-TRICHLOROPHENOL	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4-DICHLOROPHENOL	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4-DIMETHYLPHENOL	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4-DINITROPHENOL	1000	U	1000	U	27	U	27	U	27	U	27	U
2,4-DINITROTOLUENE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
2,6-DINITROTOLUENE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
2-CHLORONAPHTHALENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2-CHLOROPHENOL	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
2-NITROPHENOL	450	U	450	U	12	U	12	U	12	U	12	U
3,3'-DICHLOROBENZIDENE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
4,6-DINITRO-2-METHYLPHENOL	1500	U	1500	U	40	U	40	U	40	U	40	U
4-BROMOPHENYL PHENYL ETHER	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
4-CHLORO-3-METHYLPHENOL	750	U	750	U	20	U	20	U	20	U	20	U
4-CHLOROPHENYL PHENYL ETHER	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
4-NITROPHENOL	750	U	750	U	20	U	20	U	20	U	20	U
ACENAPHTHENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
ACENAPHTHYLENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
ANTHRACENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
BENZIDINE	1100	U	1100	U	30	U	30	U	30	U	30	U
BENZO(A)ANTHRACENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
BENZO(A)PYRENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
BENZO(B)FLUORANTHENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350043		86350044		86350045		86350046		86350047		86350048	
Client Identification	SD-15		SD-16		SW-18*		SW-19		SW-20*		SW-21 *	
Matrix Type	SEDIMENTS		SEDIMENTS		WATER		WATER		WATER		WATER	
BENZO(G,H,I)PERYLENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
BENZO(K)FLUORANTHENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
BENZYL BUTYL PHTHALATE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-CHLOROETHOXY)METHANE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-CHLOROETHYL)ETHER	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-CHLOROISOPROPYL)ETHER	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-ETHYLHEXYL)PHTHALATE	270		150	U	4.0	U	4.0	U	4.0	U	10	
CHRYSENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
DI-N-BUTYL PHTHALATE	100		66		1.6	U	1.6	U	1.6	U	1.6	U
DI-N-OCTYL PHTHALATE	1300		5600		2.0	U	2.0	U	2.0	U	2.0	U
DIBENZO(A,H)ANTHRACENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
DIETHYL PHTHALATE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
DIMETHYL PHTHALATE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
FLUORENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
FLUOROANTHENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
HEXACHLOROBENZENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
HEXACHLOROBUTADIENE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
HEXACHLOROCYCLOPENTADIENE	750	U	750	U	20	U	20	U	20	U	20	U
HEXACHLOROETHANE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
INDENO(1,2,3-C,D)PYRENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
ISOPHORONE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
N-NITROSODIPHENYLAMINE	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
N-NITROSODIPROPYLAMINE	750	U	750	U	20	U	20	U	20	U	20	U
NAPHTHALENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
NITROBENZENE	300	U	300	U	8.0	U	8.0	U	8.0	U	8.0	U
PENTACHLOROPHENOL	750	U	750	U	20	U	20	U	20	U	20	U
PHENANTHRENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U
PHENOL	150	U	150	U	4.0	U	4.0	U	4.0	U	4.0	U
PYRENE	75	U	75	U	2.0	U	2.0	U	2.0	U	2.0	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350043		86350044		86350045	86350046	86350047	86350048
Client Identification	SD-15		SD-16		SW-18 *	SW-19	SW-20 *	SW-21*
Matrix Type	SEDIMENTS		SEDIMENTS		WATER	WATER	WATER	WATER
	UG/KG		UG/KG					
VOLATILES, PRIORITY POLLUTANTS								
1,1,1-TRICHLOROETHANE	1.9	U	1.9	U	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	3.4	U	3.4	U	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	2.5	U	2.5	U	NR	NR	NR	NR
1,1-DICHLOROETHANE	2.4	U	2.4	U	NR	NR	NR	NR
1,1-DICHLOROETHENE	1.4	U	1.4	U	NR	NR	NR	NR
1,2-DICHLOROETHANE	1.4	U	1.4	U	NR	NR	NR	NR
1,2-DICHLOROPROPANE	3.0	U	3.0	U	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	5.0	U	5.0	U	NR	NR	NR	NR
BENZENE	2.2	U	2.2	U	NR	NR	NR	NR
BROMODICHLOROMETHANE	1.1	U	1.1	U	NR	NR	NR	NR
BROMOFORM	2.4	U	2.4	U	NR	NR	NR	NR
BROMOMETHANE	6.0	U	6.0	U	NR	NR	NR	NR
CARBON TETRACHLORIDE	1.4	U	1.4	U	NR	NR	NR	NR
CHLOROBENZENE	3.0	U	3.0	U	NR	NR	NR	NR
CHLORODIBROMOMETHANE	1.6	U	1.6	U	NR	NR	NR	NR
CHLOROETHANE	2.6	U	2.6	U	NR	NR	NR	NR
CHLOROFORM	0.80	U	0.80	U	NR	NR	NR	NR
CHLOROMETHANE	0.40	U	0.40	U	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	1.0	U	1.0	U	NR	NR	NR	NR
ETHYL BENZENE	3.6	U	3.6	U	NR	NR	NR	NR
METHYLENE CHLORIDE	1.4	U	1.4	U	NR	NR	NR	NR
TETRACHLOROETHENE	2.0	U	2.0	U	NR	NR	NR	NR
TOLUENE	3.0	U	3.0	U	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	0.80	U	0.80	U	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	2.5	U	2.5	U	NR	NR	NR	NR
TRICHLOROETHENE	1.0	U	1.0	U	NR	NR	NR	NR
VINYL CHLORIDE	0.90	U	0.90	U	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350043	86350044	86350045	86350046	86350047	86350048
Client Identification	SD-15	SD-16	SW-18 *	SW-19	SW-20 *	SW-21*
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
			UG/L	UG/L	UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	2.6	0.03 U	21	160
1,1,2,2-TETRACHLOROETHANE	NR	NR	0.03 U	0.03 U	0.03 U	0.03 U
1,1,2-TRICHLOROETHANE	NR	NR	0.02 U	0.02 U	0.02 U	0.93
1,1-DICHLOROETHANE	NR	NR	0.07 U	0.07 U	0.84	5.8
1,1-DICHLOROETHENE	NR	NR	0.13 U	0.13 U	0.13 U	1.5
1,2-DICHLOROBENZENE	NR	NR	0.32 U	0.32 U	0.32 U	0.32 U
1,2-DICHLOROETHANE	NR	NR	0.03 U	0.03 U	0.03 U	0.11
1,2-DICHLOROPROPANE	NR	NR	0.04 U	0.04 U	0.04 U	0.04 U
1,3-DICHLOROBENZENE	NR	NR	0.15 U	0.15 U	0.15 U	0.15 U
1,4-DICHLOROBENZENE	NR	NR	0.24 U	0.24 U	0.24 U	0.24 U
2-CHLOROETHYL VINYL ETHER	NR	NR	0.13 U	0.13 U	0.13 U	0.13 U
BROMODICHLOROMETHANE	NR	NR	0.10 U	0.10 U	0.10 U	0.10 U
BROMOFORM	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
BROMOMETHANE	NR	NR	1.2 U	1.2 U	1.2 U	1.2 U
CARBON TETRACHLORIDE	NR	NR	0.12 U	0.12 U	0.12 U	0.12 U
CHLOROBENZENE	NR	NR	0.25 U	0.25 U	0.25 U	0.25 U
CHLORODIBROMOMETHANE	NR	NR	0.09 U	0.09 U	0.09 U	0.09 U
CHLOROETHANE	NR	NR	0.52 U	0.52 U	0.52 U	0.52 U
CHLOROFORM	NR	NR	0.05 U	0.05 U	0.05 U	0.05 U
CHLOROMETHANE	NR	NR	0.08 U	0.08 U	0.08 U	0.08 U
CIS-1,3-DICHLOROPROPENE	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
DICHLORODIFLUOROMETHANE	NR	NR	1.8 U	1.8 U	1.8 U	1.8 U
METHYLENE CHLORIDE	NR	NR	0.32	0.39	0.76	0.58
TETRACHLOROETHENE	NR	NR	0.03 U	0.03 U	0.06	0.60
TRANS-1,2-DICHLOROETHENE	NR	NR	0.10 U	0.10 U	0.10 U	0.10 U
TRANS-1,3-DICHLOROPROPENE	NR	NR	0.34 U	0.34 U	0.34 U	0.34 U
TRICHLOROETHENE	NR	NR	0.12 U	0.12 U	0.12 U	0.57

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350043	86350044	86350045	86350046	86350047	86350048
Client Identification	SD-15	SD-16	SW-18*	SW-19	SW-20*	SW-21*
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
TRICHLOROFLUOROMETHANE	NR	NR	0.50 U	0.50 U	0.50 U	0.50 U
VINYL CHLORIDE	NR	NR	0.18 U	0.18 U	0.18 U	0.18 U
			UG/L	UG/L	UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	0.40 U	0.40 U	0.40 U	0.40 U
1,3-DICHLOROBENZENE	NR	NR	0.30 U	0.30 U	0.30 U	0.30 U
1,4-DICHLOROBENZENE	NR	NR	0.40 U	0.40 U	0.40 U	0.40 U
BENZENE	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
CHLOROBENZENE	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
ETHYL BENZENE	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
TOLUENE	NR	NR	0.20 U	0.20 U	0.20 U	0.20 U
XYLENES, TOTAL	NR	NR	0.60 U	0.60 U	0.60 U	0.60 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
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Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350043	86350044	86350045	86350046	86350047	86350048
Client Identification	SD-15	SD-16	SW-18 *	SW-19	SW-20 *	SW-21*
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
	MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L
PRIORITY POLLUTANT METALS (13) (TOTAL)						
ANTIMONY (TOTAL)	5.0 U	5.0 U	200 U	200 U	200 U	200 U
ARSENIC (TOTAL)	5.2	5.5	1.0 U	1.0 U	1.0 U	1.0 U
BERYLLIUM (TOTAL)	0.45	0.25	5.0 U	5.0 U	5.0 U	5.0 U
CADMIUM (TOTAL)	0.45	0.27	5.0 U	5.0 U	5.0 U	5.0 U
CHROMIUM (TOTAL)	16	9.8	50 U	50 U	50 U	50 U
COPPER (TOTAL)	19	13	20 U	20 U	20 U	20 U
LEAD (TOTAL)	10	5.2	100 U	100 U	100 U	100 U
MERCURY-CVAA (TOTAL)	0.020 U	0.020 U	0.20 U	0.20 U	0.20 U	0.20 U
NICKEL (TOTAL)	17	11	40 U	40 U	40 U	40 U
SELENIUM (TOTAL)	2.4	2.8	2.0 U	2.0 U	2.0 U	2.0 U
SILVER (TOTAL)	0.25 U	0.25 U	10 U	10 U	10 U	10 U
THALLIUM (TOTAL)	1.2 U	1.2 U	100 U	100 U	100 U	100 U
ZINC (TOTAL)	40	26	5.0 U	5.0 U	20	33

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
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Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350043	86350044	86350045	86350046	86350047	86350048
Client Identification	SD-15	SD-16	SW-18*	SW-19	SW-20*	SW-21*
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
	MG/KG	MG/KG	MG/L	MG/L	MG/L	MG/L
PETROLEUM HYDROCARBON - IR	34 U	30 U	0.50 U	0.50 U	0.50 U	0.50 U
	PERCENT	PERCENT				
MOISTURE, PERCENT	27	23	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350049		86350050		86350051		86350052		86350053		86350054	
Client Identification	SD-18 **		SD-19		SD-20 **		SD-21 **		SW-22		SW-23 *	
Matrix Type	SEDIMENTS		SEDIMENTS		SEDIMENTS		SEDIMENTS		WATER		WATER	
	UG/KG		UG/KG		UG/KG		UG/KG		UG/L		UG/L	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS												
1,2,4-TRICHLOROBENZENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
1,2-DICHLOROBENZENE	300	U	300	U	300	U	300	U	8.0	U	8.0	U
1,2-DIPHENYLHYDRAZINE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
1,3-DICHLOROBENZENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
1,4-DICHLOROBENZENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2,4,6-TRICHLOROPHENOL	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2,4-DICHLOROPHENOL	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2,4-DIMETHYLPHENOL	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2,4-DINITROPHENOL	1000	U	1000	U	1000	U	1000	U	27	U	27	U
2,4-DINITROTOLUENE	300	U	300	U	300	U	300	U	8.0	U	8.0	U
2,6-DINITROTOLUENE	300	U	300	U	300	U	300	U	8.0	U	8.0	U
.-CHLORONAPHTHALENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2-CHLOROPHENOL	150	U	150	U	150	U	150	U	4.0	U	4.0	U
2-NITROPHENOL	450	U	450	U	450	U	450	U	12	U	12	U
3,3'-DICHLOROBENZIDENE	300	U	300	U	300	U	300	U	8.0	U	8.0	U
4,6-DINITRO-2-METHYLPHENOL	1500	U	1500	U	1500	U	1500	U	40	U	40	U
4-BROMOPHENYL PHENYL ETHER	150	U	150	U	150	U	150	U	4.0	U	4.0	U
4-CHLORO-3-METHYLPHENOL	750	U	750	U	750	U	750	U	20	U	20	U
4-CHLOROPHENYL PHENYL ETHER	150	U	150	U	150	U	150	U	4.0	U	4.0	U
4-NITROPHENOL	750	U	750	U	750	U	750	U	20	U	20	U
ACENAPHTHENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
ACENAPHTHYLENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
ANTHRACENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
BENZIDINE	1100	U	1100	U	1100	U	1100	U	30	U	30	U
BENZO(A)ANTHRACENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
BENZO(A)PYRENE	75	U	75	U	290		75	U	2.0	U	2.0	U
BENZO(B)FLUORANTHENE	140		75	U	590		75	U	2.0	U	2.0	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350049		86350050		86350051		86350052		86350053		86350054	
Client Identification	SD-18 **		SD-19		SD-20**		SD-21**		SW-22		SW-23 *	
Matrix Type	SEDIMENTS		SEDIMENTS		SEDIMENTS		SEDIMENTS		WATER		WATER	
BENZO(G,H,I)PERYLENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
BENZO(K)FLUORANTHENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
BENZYL BUTYL PHTHALATE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
BIS(2-CHLOROETHOXY)METHANE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
BIS(2-CHLOROETHYL)ETHER	150	U	150	U	150	U	150	U	4.0	U	4.0	U
BIS(2-CHLOROISOPROPYL)ETHER	150	U	150	U	150	U	150	U	4.0	U	4.0	U
BIS(2-ETHYLHEXYL)PHTHALATE	350		150		2400		1100		4.0	U	4.6	
CHRYSENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
DI-N-BUTYL PHTHALATE	140		74		120		190		1.6	U	1.6	U
DI-N-OCTYL PHTHALATE	220		75	U	250		75	U	2.0	U	2.0	U
DIBENZO(A,H)ANTHRACENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
DIETHYL PHTHALATE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
DIMETHYL PHTHALATE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
FLUORENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
FLUOROANTHENE	250		75	U	550		75	U	2.0	U	2.0	U
HEXACHLOROBENZENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
HEXACHLOROBUTADIENE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
HEXACHLOROCYCLOPENTADIENE	750	U	750	U	750	U	750	U	20	U	20	U
HEXACHLOROETHANE	300	U	300	U	300	U	300	U	8.0	U	8.0	U
INDENO(1,2,3-C,D)PYRENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
ISOPHORONE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
N-NITROSODIPHENYLAMINE	150	U	150	U	150	U	150	U	4.0	U	4.0	U
N-NITROSODIPROPYLAMINE	750	U	750	U	750	U	750	U	20	U	20	U
NAPHTHALENE	75	U	75	U	75	U	75	U	2.0	U	2.0	U
NITROBENZENE	300	U	300	U	300	U	300	U	8.0	U	8.0	U
PENTACHLOROPHENOL	750	U	750	U	750	U	750	U	20	U	20	U
PHENANTHRENE	82		75	U	280		75	U	2.0	U	2.0	U
PHENOL	150	U	150	U	150	U	150	U	4.0	U	4.0	U
PYRENE	180		83		870		75	U	2.0	U	2.0	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350049		86350050		86350051		86350052		86350053	86350054
Client Identification	SD-18 **		SD-19		SD-20 **		SD-21 **		SW-22	SW-23 *
Matrix Type	SEDIMENTS		SEDIMENTS		SEDIMENTS		SEDIMENTS		WATER	WATER
	UG/KG		UG/KG		UG/KG		UG/KG			
VOLATILES, PRIORITY POLLUTANTS										
1,1,1-TRICHLOROETHANE	1.9	U	1.9	U	1.9	U	1.9	U	NR	NR
1,1,2,2-TETRACHLOROETHANE	3.4	U	3.4	U	3.4	U	3.4	U	NR	NR
1,1,2-TRICHLOROETHANE	2.5	U	2.5	U	2.5	U	2.5	U	NR	NR
1,1-DICHLOROETHANE	2.4	U	2.4	U	2.4	U	2.4	D	NR	NR
1,1-DICHLOROETHENE	1.4	U	1.4	U	1.4	U	1.4	U	NR	NR
1,2-DICHLOROETHANE	1.4	U	1.4	U	1.4	U	1.4	U	NR	NR
1,2-DICHLOROPROPANE	3.0	U	3.0	U	3.0	U	3.0	U	NR	NR
2-CHLOROETHYL VINYL ETHER	5.0	U	5.0	U	5.0	U	5.0	U	NR	NR
BENZENE	2.2	U	2.2	U	2.2	U	2.2	U	NR	NR
BROMODICHLOROMETHANE	1.1	U	1.1	U	1.1	U	1.1	U	NR	NR
BROMOFORM	2.4	U	2.4	U	2.4	U	2.4	U	NR	NR
BROMOMETHANE	6.0	U	6.0	U	6.0	U	6.0	U	NR	NR
CARBON TETRACHLORIDE	1.4	U	1.4	U	1.4	U	1.4	U	NR	NR
CHLOROBENZENE	3.0	U	3.0	U	3.0	U	3.0	U	NR	NR
CHLORODIBROMOMETHANE	1.6	U	1.6	U	1.6	U	1.6	U	NR	NR
CHLOROETHANE	2.6	U	2.6	U	2.6	U	2.6	U	NR	NR
CHLOROFORM	0.80	U	0.80	U	0.80	U	0.80	U	NR	NR
CHLOROMETHANE	0.40	U	0.40	U	0.40	U	0.40	U	NR	NR
CIS-1,3-DICHLOROPROPENE	1.0	U	1.0	U	1.0	U	1.0	U	NR	NR
ETHYL BENZENE	3.6	U	3.6	U	3.6	U	3.6	U	NR	NR
METHYLENE CHLORIDE	1.4	U	1.4	U	1.4	U	1.4	U	NR	NR
TETRACHLOROETHENE	2.0	U	2.0	U	2.0	U	2.0	U	NR	NR
TOLUENE	3.0	U	3.0	U	3.0	U	3.0	U	NR	NR
TRANS-1,2-DICHLOROETHENE	0.80	U	0.80	U	0.80	U	0.80	U	NR	NR
TRANS-1,3-DICHLOROPROPENE	2.5	U	2.5	U	2.5	U	2.5	U	NR	NR
TRICHLOROETHENE	1.0	U	1.0	U	1.0	U	1.0	U	NR	NR
VINYL CHLORIDE	0.90	U	0.90	U	0.90	U	0.90	U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350049	86350050	86350051	86350052	86350053	86350054
Client Identification	SD-18 **	SD-19	SD-20 **	SD-21 **	SW-22	SW-23 *
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
					UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	0.03 U	0.03 U
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	0.03 U	0.03 U
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	0.02 U	0.02 U
1,1-DICHLOROETHANE	NR	NR	NR	NR	0.07 U	0.07 U
1,1-DICHLOROETHENE	NR	NR	NR	NR	0.13 U	0.13 U
1,2-DICHLOROBENZENE	NR	NR	NR	NR	0.32 U	0.32 U
1,2-DICHLOROETHANE	NR	NR	NR	NR	0.03 U	0.03 U
1,2-DICHLOROPROPANE	NR	NR	NR	NR	0.04 U	0.04 U
1,3-DICHLOROBENZENE	NR	NR	NR	NR	0.15 U	0.15 U
1,4-DICHLOROBENZENE	NR	NR	NR	NR	0.24 U	0.24 U
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	0.13 U	0.13 U
BROMODICHLOROMETHANE	NR	NR	NR	NR	0.10 U	0.10 U
BROMOFORM	NR	NR	NR	NR	0.20 U	0.20 U
BROMOMETHANE	NR	NR	NR	NR	1.2 U	1.2 U
CARBON TETRACHLORIDE	NR	NR	NR	NR	0.12 U	0.12 U
CHLOROBENZENE	NR	NR	NR	NR	0.25 U	0.25 U
CHLORODIBROMOMETHANE	NR	NR	NR	NR	0.09 U	0.09 U
CHLOROETHANE	NR	NR	NR	NR	0.52 U	0.52 U
CHLOROFORM	NR	NR	NR	NR	0.05 U	0.05 U
CHLOROMETHANE	NR	NR	NR	NR	0.08 U	0.08 U
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	0.20 U	0.20 U
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	1.8 U	1.8 U
METHYLENE CHLORIDE	NR	NR	NR	NR	78	0.79
TETRACHLOROETHENE	NR	NR	NR	NR	0.03 U	0.03 U
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	0.10 U	0.10 U
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	0.34 U	0.34 U
TRICHLOROETHENE	NR	NR	NR	NR	0.12 U	0.12 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350049	86350050	86350051	86350052	86350053	86350054
Client Identification	SD-18 **	SD-19	SD-20 **	SD-21**	SW-22	SW-23*
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	0.64 NC	0.50 U
VINYL CHLORIDE	NR	NR	NR	NR	0.18 U	0.18 U
					UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	0.40 U	0.40 U
1,3-DICHLOROBENZENE	NR	NR	NR	NR	0.30 U	0.30 U
1,4-DICHLOROBENZENE	NR	NR	NR	NR	0.40 U	0.40 U
BENZENE	NR	NR	NR	NR	0.20 U	0.20 U
CHLOROBENZENE	NR	NR	NR	NR	0.20 U	0.20 U
ETHYL BENZENE	NR	NR	NR	NR	0.20 U	0.20 U
TOLUENE	NR	NR	NR	NR	0.20 U	0.20 U
XYLENES, TOTAL	NR	NR	NR	NR	0.60 U	0.60 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350049	86350050	86350051	86350052	86350053	86350054
Client Identification	SD-18**	SD-19	SD-20**	SD-21**	SW-22	SW-23 *
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
PRIORITY POLLUTANT METALS (13) (TOTAL)						
ANTIMONY (TOTAL)	5.0 U	5.0 U	5.0 U	5.0 U	200 U	200 U
ARSENIC (TOTAL)	6.9	10	5.6	6.5	1.0 U	1.0 U
BERYLLIUM (TOTAL)	0.20	0.55	0.30	0.20	5.0 U	5.0 U
CADMIUM (TOTAL)	0.55	1.7	0.90	1.9	5.0 U	5.0 U
CHROMIUM (TOTAL)	4.6	19	9.0	14	5.0 U	5.0 U
COPPER (TOTAL)	14	35	27	100	50 U	50 U
LEAD (TOTAL)	28	140	89	100	20 U	20 U
MERCURY-CVAA (TOTAL)	0.077	0.020 U	0.014	0.15	100 U	100 U
NICKEL (TOTAL)	6.5	18	11	11	0.20 U	0.20 U
SELENIUM (TOTAL)	1.5	2.8	2.8	1.8	40 U	40 U
SILVER (TOTAL)	0.25 U	0.25 U	0.25 U	0.25 U	2.0 U	2.0 U
THALLIUM (TOTAL)	23	1.2 U	1.2 U	1.2 U	10 U	10 U
ZINC (TOTAL)	49	200	130	100	100 U	100 U
					5.0 U	5.0 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350049	86350050	86350051	86350052	86350053	86350054
Client Identification	SD-18 **	SD-19	SD-20 **	SD-21**	SW-22	SW-23*
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
	MG/KG	MG/KG	MG/KG	MG/KG	MG/L	MG/L
PETROLEUM HYDROCARBON - IR	53 U	35 U	2900	1500	0.50 U	0.50 U
	PERCENT	PERCENT	PERCENT	PERCENT		
MOISTURE, PERCENT	58	33	58	54	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350055		86350056	86350057	86350058	86350059	86350060
Client Identification	SW-24		SD-22	SD-23	FB1 TRIP BLANK	TS-6	TS-7
Matrix Type	WATER		SEDIMENTS	SEDIMENTS	WATER	SOIL	SOIL
	UG/L						
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS							
1,2,4-TRICHLOROBENZENE	4.0	U	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	8.0	U	NR	NR	NR	NR	NR
1,2-DIPHENYLHYDRAZINE	4.0	U	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	4.0	U	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	4.0	U	NR	NR	NR	NR	NR
2,4,6-TRICHLOROPHENOL	4.0	U	NR	NR	NR	NR	NR
2,4-DICHLOROPHENOL	4.0	U	NR	NR	NR	NR	NR
2,4-DIMETHYLPHENOL	4.0	U	NR	NR	NR	NR	NR
2,4-DINITROPHENOL	27	U	NR	NR	NR	NR	NR
2,4-DINITROTOLUENE	8.0	U	NR	NR	NR	NR	NR
2,6-DINITROTOLUENE	8.0	U	NR	NR	NR	NR	NR
2-CHLORONAPHTHALENE	4.0	U	NR	NR	NR	NR	NR
2-CHLOROPHENOL	4.0	U	NR	NR	NR	NR	NR
2-NITROPHENOL	12	U	NR	NR	NR	NR	NR
3,3'-DICHLOROBENZIDENE	8.0	U	NR	NR	NR	NR	NR
4,6-DINITRO-2-METHYLPHENOL	40	U	NR	NR	NR	NR	NR
4-BROMOPHENYL PHENYL ETHER	4.0	U	NR	NR	NR	NR	NR
4-CHLORO-3-METHYLPHENOL	20	U	NR	NR	NR	NR	NR
4-CHLOROPHENYL PHENYL ETHER	4.0	U	NR	NR	NR	NR	NR
4-NITROPHENOL	20	U	NR	NR	NR	NR	NR
ACENAPHTHENE	2.0	U	NR	NR	NR	NR	NR
ACENAPHTHYLENE	2.0	U	NR	NR	NR	NR	NR
ANTHRACENE	2.0	U	NR	NR	NR	NR	NR
BENZIDINE	30	U	NR	NR	NR	NR	NR
BENZO(A)ANTHRACENE	4.0	U	NR	NR	NR	NR	NR
BENZO(A)PYRENE	2.0	U	NR	NR	NR	NR	NR
BENZO(B)FLUORANTHENE	2.0	U	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350055		86350056	86350057	86350058	86350059	86350060
Client Identification	SW-24		SD-22	SD-23	FB1 TRIP BLANK	TS-6	TS-7
Matrix Type	WATER		SEDIMENTS	SEDIMENTS	WATER	SOIL	SOIL
BENZO(G,H,I)PERYLENE	4.0	U	NR	NR	NR	NR	NR
BENZO(K)FLUORANTHENE	2.0	U	NR	NR	NR	NR	NR
BENZYL BUTYL PHTHALATE	4.0	U	NR	NR	NR	NR	NR
BIS(2-CHLOROETHOXY)METHANE	4.0	U	NR	NR	NR	NR	NR
BIS(2-CHLOROETHYL)ETHER	4.0	U	NR	NR	NR	NR	NR
BIS(2-CHLOROISOPROPYL)ETHER	4.0	U	NR	NR	NR	NR	NR
BIS(2-ETHYLHEXYL)PHTHALATE	4.0	U	NR	NR	NR	NR	NR
CHRYSENE	2.0	U	NR	NR	NR	NR	NR
DI-N-BUTYL PHTHALATE	1.6	U	NR	NR	NR	NR	NR
DI-N-OCTYL PHTHALATE	2.0	U	NR	NR	NR	NR	NR
DIBENZO(A,H)ANTHRACENE	2.0	U	NR	NR	NR	NR	NR
DIETHYL PHTHALATE	2.0	U	NR	NR	NR	NR	NR
DIMETHYL PHTHALATE	2.0	U	NR	NR	NR	NR	NR
FLUORENE	2.0	U	NR	NR	NR	NR	NR
FLUOROANTHENE	2.0	U	NR	NR	NR	NR	NR
HEXACHLOROBENZENE	4.0	U	NR	NR	NR	NR	NR
HEXACHLOROBUTADIENE	4.0	U	NR	NR	NR	NR	NR
HEXACHLOROCYCLOPENTADIENE	20	U	NR	NR	NR	NR	NR
HEXACHLOROETHANE	8.0	U	NR	NR	NR	NR	NR
INDENO(1,2,3-C,D)PYRENE	2.0	U	NR	NR	NR	NR	NR
ISOPHORONE	4.0	U	NR	NR	NR	NR	NR
N-NITROSODIPHENYLAMINE	4.0	U	NR	NR	NR	NR	NR
N-NITROSODIPROPYLAMINE	20	U	NR	NR	NR	NR	NR
NAPHTHALENE	2.0	U	NR	NR	NR	NR	NR
NITROBENZENE	8.0	U	NR	NR	NR	NR	NR
PENTACHLOROPHENOL	20	U	NR	NR	NR	NR	NR
PHENANTHRENE	2.0	U	NR	NR	NR	NR	NR
PHENOL	4.0	U	NR	NR	NR	NR	NR
PYRENE	2.0	U	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350055	86350056	86350057	86350058	86350059	86350060
Client Identification	SW-24	SD-22	SD-23	FB1 TRIP BLANK	TS-6	TS-7
Matrix Type	WATER	SEDIMENTS	SEDIMENTS	WATER	SOIL	SOIL
		UG/KG	UG/KG	UG/L		
VOLATILES, PRIORITY POLLUTANTS						
1,1,1-TRICHLOROETHANE	NR	1.9 U	1.9 U	1.9 U	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	3.4 U	3.4 U	3.4 U	NR	NR
1,1,2-TRICHLOROETHANE	NR	2.5 U	2.5 U	2.5 U	NR	NR
1,1-DICHLOROETHANE	NR	2.4 U	2.4 U	2.4 U	NR	NR
1,1-DICHLOROETHENE	NR	1.4 U	1.4 U	1.4 U	NR	NR
1,2-DICHLOROETHANE	NR	1.4 U	1.4 U	1.4 U	NR	NR
1,2-DICHLOROPROPANE	NR	3.0 U	3.0 U	3.0 U	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	5.0 U	5.0 U	5.0 U	NR	NR
BENZENE	NR	2.2 U	2.2 U	2.2 U	NR	NR
BROMODICHLOROMETHANE	NR	1.1 U	1.1 U	1.1 U	NR	NR
BROMOFORM	NR	2.4 U	2.4 U	2.4 U	NR	NR
BROMOMETHANE	NR	6.0 U	6.0 U	6.0 U	NR	NR
CARBON TETRACHLORIDE	NR	1.4 U	1.4 U	1.4 U	NR	NR
CHLOROBENZENE	NR	3.0 U	3.0 U	3.0 U	NR	NR
CHLORODIBROMOMETHANE	NR	1.6 U	1.6 U	1.6 U	NR	NR
CHLOROETHANE	NR	2.6 U	2.6 U	2.6 U	NR	NR
CHLOROFORM	NR	0.80 U	0.80 U	0.80 U	NR	NR
CHLOROMETHANE	NR	0.40 U	0.40 U	0.40 U	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	1.0 U	1.0 U	1.0 U	NR	NR
ETHYL BENZENE	NR	3.6 U	3.6 U	3.6 U	NR	NR
METHYLENE CHLORIDE	NR	1.4 U	1.4 U	1.4 U	NR	NR
TETRACHLOROETHENE	NR	2.0 U	2.0 U	2.0 U	NR	NR
TOLUENE	NR	3.0 U	3.0 U	3.0 U	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	0.80 U	0.80 U	0.80 U	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	2.5 U	2.5 U	2.5 U	NR	NR
TRICHLOROETHENE	NR	1.0 U	1.0 U	1.0 U	NR	NR
VINYL CHLORIDE	NR	0.90 U	0.90 U	0.90 U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350055	86350056	86350057	86350058	86350059	86350060
Client Identification	SW-24	SD-22	SD-23	FB1 TRIP BLANK	TS-6	TS-7
Matrix Type	WATER	SEDIMENTS	SEDIMENTS	WATER	SOIL	SOIL
	UG/L					
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	0.03 U	NR	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	0.03 U	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	0.02 U	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	0.07 U	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	0.13 U	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	0.32 U	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	0.03 U	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	0.04 U	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	0.15 U	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	0.24 U	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	0.13 U	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	0.10 U	NR	NR	NR	NR	NR
BROMOFORM	0.20 U	NR	NR	NR	NR	NR
BROMOMETHANE	1.2 U	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	0.12 U	NR	NR	NR	NR	NR
CHLOROBENZENE	0.25 U	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	0.09 U	NR	NR	NR	NR	NR
CHLOROETHANE	0.52 U	NR	NR	NR	NR	NR
CHLOROFORM	0.05 U	NR	NR	NR	NR	NR
CHLOROMETHANE	0.08 U	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	0.20 U	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	1.8 U	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	99	NR	NR	NR	NR	NR
TETRACHLOROETHENE	0.03 U	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	0.10 U	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	0.34 U	NR	NR	NR	NR	NR
TRICHLOROETHENE	0.12 U	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350055	86350056	86350057	86350058	86350059	86350060
Client Identification	SW-24	SD-22	SD-23	:B1 TRIP BLANK	TS-6	TS-7
Matrix Type	WATER	SEDIMENTS	SEDIMENTS	WATER	SOIL	SOIL
TRICHLOROFLUOROMETHANE	0.86 NC	NR	NR	NR	NR	NR
VINYL CHLORIDE	0.18 U	NR	NR	NR	NR	NR
	UG/L					
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	0.40 U	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	0.30 U	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	0.40 U	NR	NR	NR	NR	NR
BENZENE	0.20 U	NR	NR	NR	NR	NR
CHLOROBENZENE	0.20 U	NR	NR	NR	NR	NR
ETHYL BENZENE	0.20 U	NR	NR	NR	NR	NR
TOLUENE	0.20 U	NR	NR	NR	NR	NR
XYLENES, TOTAL	0.60 U	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350055	86350056	86350057	86350058	86350059		86350060	
Client Identification	SW-24	SD-22	SD-23	FB1 TRIP BLANK	TS-6		TS-7	
Matrix Type	WATER	SEDIMENTS	SEDIMENTS	WATER	SOIL		SOIL	
PCB'S (7 AROCHLORS) (METHOD 608 CMPDS)					UG/KG		UG/KG	
PCB-1016	NR	NR	NR	NR	990	U	1300	U
PCB-1221	NR	NR	NR	NR	1800	U	2500	U
PCB-1232	NR	NR	NR	NR	1700	U	2300	U
PCB-1242	NR	NR	NR	NR	1000	U	1400	U
PCB-1248	NR	NR	NR	NR	1000	U	1400	U
PCB-1254	NR	NR	NR	NR	450	U	610	U
PCB-1260	NR	NR	NR	NR	410	U	500	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350055		86350056		86350057		86350058	86350059	86350060
Client Identification	SW-24		SD-22		SD-23		FB1 TRIP BLANK	TS-6	TS-7
Matrix Type	WATER		SEDIMENTS		SEDIMENTS		WATER	SOIL	SOIL
	UG/L		MG/KG		MG/KG				
PRIORITY POLLUTANT METALS (13) (TOTAL)									
ANTIMONY (TOTAL)	200	U	5.0	U	5.0	U	NR	NR	NR
ARSENIC (TOTAL)	1.0	U	7.1		7.0		NR	NR	NR
BERYLLIUM (TOTAL)	5.0	U	0.20		0.14	U	NR	NR	NR
CADMIUM (TOTAL)	5.0	U	2.3		0.32		NR	NR	NR
CHROMIUM (TOTAL)	50	U	17		2.9		NR	NR	NR
COPPER (TOTAL)	20	U	120		11		NR	NR	NR
LEAD (TOTAL)	100	U	97		5.0		NR	NR	NR
MERCURY-CVAA (TOTAL)	0.20	U	0.020	U	0.043		NR	NR	NR
NICKEL (TOTAL)	40	U	12		45		NR	NR	NR
SELENIUM (TOTAL)	2.0	U	0.20	U	0.20	U	NR	NR	NR
SILVER (TOTAL)	10	U	0.25	U	0.25	U	NR	NR	NR
THALLIUM (TOTAL)	100	U	1.2	U	1.2	U	NR	NR	NR
ZINC (TOTAL)	5.0	U	110		28		NR	NR	NR

See Notes and Comments on the Final Page of this Report

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350055	86350056	86350057	86350058	86350059	86350060
Client Identification	SW-24	SD-22	SD-23	FB1 TRIP BLANK	TS-6	TS-7
Matrix Type	WATER	SEDIMENTS	SEDIMENTS	WATER	SOIL	SOIL
	MG/L	MG/KG	MG/KG		MG/KG	MG/KG
PETROLEUM HYDROCARBON - IR	0.50 U	2000 U	120	NR	400	330
		PERCENT	PERCENT		PERCENT	PERCENT
MOISTURE, PERCENT	NR	63	49	NR	33	30

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350061	86350062	86350063	86350065		86350067	86350069
Client Identification	ES1 (2)	ES-2	ES-3	SD-21 DUP		SW-16 DUP	ES-2 DUP
Matrix Type	SOIL	SOIL	SOIL	SEDIMENTS		WATER	SOIL
				UG/KG		UG/KG	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS							
1,2,4-TRICHLOROBENZENE	NR	NR	NR	150	U	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	300	U	NR	NR
1,2-DIPHENYLHYDRAZINE	NR	NR	NR	150	U	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	150	U	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	150	U	NR	NR
2,4,6-TRICHLOROPHENOL	NR	NR	NR	150	U	NR	NR
2,4-DICHLOROPHENOL	NR	NR	NR	150	U	NR	NR
2,4-DIMETHYLPHENOL	NR	NR	NR	150	U	NR	NR
2,4-DINITROPHENOL	NR	NR	NR	1000	U	NR	NR
2,4-DINITROTOLUENE	NR	NR	NR	300	U	NR	NR
2,6-DINITROTOLUENE	NR	NR	NR	300	U	NR	NR
2-CHLORONAPHTHALENE	NR	NR	NR	150	U	NR	NR
2-CHLOROPHENOL	NR	NR	NR	150	U	NR	NR
2-NITROPHENOL	NR	NR	NR	450	U	NR	NR
3,3'-DICHLOROBENZIDENE	NR	NR	NR	300	U	NR	NR
4,6-DINITRO-2-METHYLPHENOL	NR	NR	NR	1500	U	NR	NR
4-BROMOPHENYL PHENYL ETHER	NR	NR	NR	150	U	NR	NR
4-CHLORO-3-METHYLPHENOL	NR	NR	NR	750	U	NR	NR
4-CHLOROPHENYL PHENYL ETHER	NR	NR	NR	150	U	NR	NR
4-NITROPHENOL	NR	NR	NR	750	U	NR	NR
ACENAPHTHENE	NR	NR	NR	75	U	NR	NR
ACENAPHTHYLENE	NR	NR	NR	75	U	NR	NR
ANTHRACENE	NR	NR	NR	75	U	NR	NR
BENZIDINE	NR	NR	NR	1100	U	NR	NR
BENZO(A)ANTHRACENE	NR	NR	NR	150	U	NR	NR
BENZO(A)PYRENE	NR	NR	NR	75	U	NR	NR
BENZO(B)FLUORANTHENE	NR	NR	NR	75	U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350061	86350062	86350063	86350065	86350067	86350069
Client Identification	ES1 (2)	ES-2	ES-3	SD-21 DUP	SW-16 DUP	ES-2 DUP
Matrix Type	SOIL	SOIL	SOIL	SEDIMENTS	WATER	SOIL
BENZO(G,H,I)PERYLENE	NR	NR	NR	150 U	NR	NR
BENZO(K)FLUORANTHENE	NR	NR	NR	75 U	NR	NR
BENZYL BUTYL PHTHALATE	NR	NR	NR	150 U	NR	NR
BIS(2-CHLOROETHOXY)METHANE	NR	NR	NR	150 U	NR	NR
BIS(2-CHLOROETHYL)ETHER	NR	NR	NR	150 U	NR	NR
BIS(2-CHLOROISOPROPYL)ETHER	NR	NR	NR	150 U	NR	NR
BIS(2-ETHYLHEXYL)PHTHALATE	NR	NR	NR	1500	NR	NR
CHRYSENE	NR	NR	NR	75 U	NR	NR
DI-N-BUTYL PHTHALATE	NR	NR	NR	60 U	NR	NR
DI-N-OCTYL PHTHALATE	NR	NR	NR	75 U	NR	NR
DIBENZO(A,H)ANTHRACENE	NR	NR	NR	75 U	NR	NR
DIETHYL PHTHALATE	NR	NR	NR	75 U	NR	NR
DIMETHYL PHTHALATE	NR	NR	NR	75 U	NR	NR
FLUORENE	NR	NR	NR	75 U	NR	NR
FLUOROANTHENE	NR	NR	NR	75 U	NR	NR
HEXACHLOROBENZENE	NR	NR	NR	150 U	NR	NR
HEXACHLOROBUTADIENE	NR	NR	NR	150 U	NR	NR
HEXACHLOROCYCLOPENTADIENE	NR	NR	NR	750 U	NR	NR
HEXACHLOROETHANE	NR	NR	NR	300 U	NR	NR
INDENO(1,2,3-C,D)PYRENE	NR	NR	NR	75 U	NR	NR
ISOPHORONE	NR	NR	NR	150 U	NR	NR
N-NITROSODIPHENYLAMINE	NR	NR	NR	150 U	NR	NR
N-NITROSODIPROPYLAMINE	NR	NR	NR	750 U	NR	NR
NAPHTHALENE	NR	NR	NR	75 U	NR	NR
NITROBENZENE	NR	NR	NR	300 U	NR	NR
PENTACHLOROPHENOL	NR	NR	NR	750 U	NR	NR
PHENANTHRENE	NR	NR	NR	75 U	NR	NR
PHENOL	NR	NR	NR	150	NR	NR
PYRENE	NR	NR	NR	75 U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	86350061		86350062		86350063		86350065	86350067	86350069	
Client Identification	ES4 (2)		ES-2		ES-3		SD-21 DUP	SW-16 DUP	ES-2 DUP	
Matrix Type	SOIL		SOIL		SOIL		SEDIMENTS	WATER	SOIL	
	UG/KG		UG/KG		UG/KG				UG/KG	
PEST/PCB'S (METH 608 CMPDS)										
4,4'-DDD	8.5	U	9.0	U	4.7	U	NR	NR	5.7	U
4,4'-DDE	170		42		5.0		NR	NR	48	
4,4'-DDT	220		100		6.6		NR	NR	51	
A-BHC	1.5	U	1.6	U	0.83	U	NR	NR	1.0	U
ALDRIN	7.4	NC	2.2	NC	0.86	U	NR	NR	1.4	NC
B-BHC	4.3	U	4.6	U	2.4	U	NR	NR	2.9	U
CHLORDANE	23	U	25	U	13	U	NR	NR	16	U
D-BHC	3.1	U	3.3	U	1.7	U	NR	NR	2.1	U
DIELDRIN	10		1.1	U	1.1	U	NR	NR	1.4	U
ENDOSULFAN I	2.0	U	2.0	U	1.1	U	NR	NR	1.3	U
ENDOSULFAN II	2.9	U	3.0	U	1.6	U	NR	NR	1.9	U
ENDOSULFAN SULFATE	3.0	U	3.2	U	1.7	U	NR	NR	2.0	U
ENDRIN	6.6	U	7.0	U	3.7	U	NR	NR	4.4	U
ENDRIN ALDEHYDE	4.1	U	4.3	U	2.2	U	NR	NR	2.7	U
G-BHC(LINDANE)	1.5	U	1.6	U	0.84	U	NR	NR	1.0	U
HEPTACHLOR	1.6	U	1.7	U	0.90	U	NR	NR	1.1	U
HEPTACHLOR EPOXIDE	2.2		1.7	U	0.90	U	NR	NR	1.1	U
PCB-1016	94	U	99	U	52	U	NR	NR	63	U
PCB-1221	180	U	180	U	97	U	NR	NR	120	U
PCB-1232	160	U	170	U	88	U	NR	NR	110	U
PCB-1242	97	U	100	U	54	U	NR	NR	65	U
PCB-1248	96	U	100	U	53	U	NR	NR	65	U
PCB-1254	43	U	46	U	24	U	NR	NR	29	U
PCB-1260	39	U	41	U	21	U	NR	NR	26	U
TOXAPHENE	170	U	180	U	94	U	NR	NR	120	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	86350061		86350062		86350063		86350065	86350067	86350069	
Client Identification	ES1 (2)		ES-2		ES-3		SD-21 DUP	SW-16 DUP	ES-2 DUP	
Matrix Type	SOIL		SOIL		SOIL		SEDIMENTS	WATER	SOIL	
	UG/KG		UG/KG		UG/KG				UG/KG	
ORGANOPHOSPHORUS PESTICIDES (METH 614 CMPDS)										
AZINPHOS METHYL	5600	U	5600		5600	U	NR	NR	5600	U
DEMETON-S	1600	U	1600	U	1600	U	NR	NR	1600	U
DIAZINON	1200	U	1200	U	1200	U	NR	NR	1200	U
DISULFOTON	1200	U	1200	U	1200	U	NR	NR	1200	U
ETHION	1200	U	1200	U	1200	U	NR	NR	1200	U
MALATHION	1600	U	1600	U	1600	U	NR	NR	1600	U
PARATHION,ETHYL	1200	U	1200	U	1200	U	NR	NR	1200	U
PARATHION,METHYL	1600	U	1600	U	1600	U	NR	NR	1600	U
	UG/KG		UG/KG		UG/KG					
HERBICIDES, CHLORINATED (METH 615 CMPDS)										
2,4,5-T	0.29	U	0.28	U	0.29	U	NR	NR	NR	
2,4,5-TP(SILVEX)	0.23	U	0.23	U	0.24	U	NR	NR	NR	
2,4-D	0.62	U	0.60	U	0.62	U	NR	NR	NR	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350061	86350062	86350063	86350065	86350067	86350069
Client Identification	ES1 (2)	ES-2	ES-3	SD-21 DUP	SW-16 DUP	ES-2 DUP
Matrix Type	SOIL	SOIL	SOIL	SEDIMENTS	WATER	SOIL
				MG/KG	MG/KG	
PRIORITY POLLUTANT METALS (13) (TOTAL)						NR
ANTIMONY (TOTAL)	NR	NR	NR	5.0 U	200 U	NR
ARSENIC (TOTAL)	NR	NR	NR	4.3	1.0 U	NR
BERYLLIUM (TOTAL)	NR	NR	NR	0.17	5.0 U	NR
CADMIUM (TOTAL)	NR	NR	NR	1.5	5.0 U	NR
CHROMIUM (TOTAL)	NR	NR	NR	12	50 U	NR
COPPER (TOTAL)	NR	NR	NR	96	20 U	NR
LEAD (TOTAL)	NR	NR	NR	110	100 U	NR
MERCURY-CVAA (TOTAL)	NR	NR	NR	0.035	0.20 U	NR
NICKEL (TOTAL)	NR	NR	NR	10	40 U	NR
SELENIUM (TOTAL)	NR	NR	NR	1.1	2.0 U	NR
SILVER (TOTAL)	NR	NR	NR	0.25 U	10 U	NR
THALLIUM (TOTAL)	NR	NR	NR	0.92 U	100 U	NR
ZINC (TOTAL)	NR	NR	NR	81	5.0 U	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350061	86350062	86350063	86350065	86350067	86350069
Client Identification	ES1 (2)	ES-2	ES-3	SD-21 DUP	SW-16 DUP	ES-2 DUP
Matrix Type	SOIL	SOIL	SOIL	SEDIMENTS	WATER	SOIL
	PERCENT	PERCENT	PERCENT			
MOISTURE, PERCENT	21	19	23	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350071	86350072		86350073		86350074	
Client Identification	TS-4 DUP	LAB BLANK		LAB BLANK		LAB BLANK	
Matrix Type	SOIL	SOIL		SOIL		SOIL	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS		UG/KG		UG/KG		UG/KG	
1,2,4-TRICHLOROBENZENE	NR	150	U	150	U	150	U
1,2-DICHLOROBENZENE	NR	300	U	300	U	300	U
1,2-DIPHENYLHYDRAZINE	NR	150	U	150	U	150	U
1,3-DICHLOROBENZENE	NR	150	U	150	U	150	U
1,4-DICHLOROBENZENE	NR	150	U	150	U	150	U
2,4,6-TRICHLOROPHENOL	NR	150	U	150	U	150	U
2,4-DICHLOROPHENOL	NR	150	U	150	U	150	U
2,4-DIMETHYLPHENOL	NR	150	U	150	U	150	U
2,4-DINITROPHENOL	NR	1000	U	1000	U	1000	U
2,4-DINITROTOLUENE	NR	300	U	300	U	300	U
2,6-DINITROTOLUENE	NR	300	U	300	U	300	U
2-CHLORONAPHTHALENE	NR	150	U	150	U	150	U
2-CHLOROPHENOL	NR	150	U	150	U	150	U
2-NITROPHENOL	NR	450	U	450	U	450	U
3,3'-DICHLOROBENZIDENE	NR	300	U	300	U	300	U
4,6-DINITRO-2-METHYLPHENOL	NR	1500	U	1500	U	1500	U
4-BROMOPHENYL PHENYL ETHER	NR	150	U	150	U	150	U
4-CHLORO-3-METHYLPHENOL	NR	750	U	750	U	750	U
4-CHLOROPHENYL PHENYL ETHER	NR	150	U	150	U	150	U
4-NITROPHENOL	NR	750	U	750	U	750	U
ACENAPHTHENE	NR	75	U	75	U	75	U
ACENAPHTHYLENE	NR	75	U	75	U	75	U
ANTHRACENE	NR	75	U	75	U	75	U
BENZIDINE	NR	1100	U	1100	U	1100	U
BENZO(A)ANTHRACENE	NR	150	U	150	U	150	U
BENZO(A)PYRENE	NR	75	U	75	U	75	U
BENZO(B)FLUORANTHENE	NR	75	U	75	U	75	U

See Notes and Comments on the Final Page of this Report.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86350071	86350072		86350073		86350074	
Client Identification	TS-4 DUP	LAB BLANK		LAB BLANK		LAB BLANK	
Matrix Type	SOIL	SOIL		SOIL		SOIL	
BENZO(G,H,I)PERYLENE	NR	150	U	150	U	150	U
BENZO(K)FLUORANTHENE	NR	75	U	75	U	75	U
BENZYL BUTYL PHTHALATE	NR	150	U	150	U	150	U
BIS(2-CHLOROETHOXY)METHANE	NR	150	U	150	U	150	U
BIS(2-CHLOROETHYL)ETHER	NR	150	U	150	U	150	U
BIS(2-CHLOROISOPROPYL)ETHER	NR	150	U	150	U	150	U
BIS(2-ETHYLHEXYL)PHTHALATE	NR	150	U	150	U	150	U
CHRYSENE	NR	75	U	75	U	75	U
DI-N-BUTYL PHTHALATE	NR	60	U	60	U	60	U
DI-N-OCTYL PHTHALATE	NR	75	U	75	U	75	U
DIBENZO(A,H)ANTHRACENE	NR	75	U	75	U	75	U
DIETHYL PHTHALATE	NR	75	U	75	U	75	U
DIMETHYL PHTHALATE	NR	75	U	75	U	75	U
FLUORENE	NR	75	U	75	U	75	U
FLUOROANTHENE	NR	75	U	75	U	75	U
HEXACHLOROBENZENE	NR	150	U	150	U	150	U
HEXACHLOROBUTADIENE	NR	150	U	150	U	150	U
HEXACHLOROCYCLOPENTADIENE	NR	750	U	750	U	750	U
HEXACHLOROETHANE	NR	300	U	300	U	300	U
INDENO(1,2,3-C,D)PYRENE	NR	75	U	75	U	75	U
ISOPHORONE	NR	150	U	150	U	150	U
N-NITROSODIPHENYLAMINE	NR	150	U	150	U	150	U
N-NITROSODIPROPYLAMINE	NR	750	U	750	U	750	U
NAPHTHALENE	NR	75	U	75	U	75	U
NITROBENZENE	NR	300	U	300	U	300	U
PENTACHLOROPHENOL	NR	750	U	750	U	750	U
PHENANTHRENE	NR	75	U	75	U	75	U
PHENOL	NR	150	U	150	U	150	U
PYRENE	NR	75	U	75	U	75	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	86350071		86350072	86350073	86350074
Client Identification	TS-4 DUP		LAB BLANK	LAB BLANK	LAB BLANK
Matrix Type	SOIL		SOIL	SOIL	SOIL
	UG/L				
PCB'S (7 AROCHLORS) (METHOD 608 COMPOUNDS)					
PCB-1016	170	U	NR	NR	NR
PCB-1221	320	U	NR	NR	NR
PCB-1232	300	U	NR	NR	NR
PCB-1242	180	U	NR	NR	NR
PCB-1248	180	U	NR	NR	NR
PCB-1254	80	U	NR	NR	NR
PCB-1260	72	U	NR	NR	NR
PRIORITY POLLUTANT METALS (13) (TOTAL)					
ANTIMONY (TOTAL)	200	U	NR	NR	NR
ARSENIC (TOTAL)	1.0	U	NR	NR	NR
BERYLLIUM (TOTAL)	5.0	U	NR	NR	NR
CADMIUM (TOTAL)	5.0	U	NR	NR	NR
CHROMIUM (TOTAL)	50	U	NR	NR	NR
COPPER (TOTAL)	20	U	NR	NR	NR
LEAD (TOTAL)	100	U	NR	NR	NR
MERCURY-CVAA (TOTAL)	0.20	U	NR	NR	NR
NICKEL (TOTAL)	40	U	NR	NR	NR
SELENIUM (TOTAL)	2.0	U	NR	NR	NR
SILVER (TOTAL)	10	U	NR	NR	NR
THALLIUM (TOTAL)	100	U	NR	NR	NR
ZINC (TOTAL)	5.0	U	NR	NR	NR

UG/L

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

01-may-1987

Notes and Comments:

NR	Analysis Not Required
C	VALUE FOR SUBSTANCE IS A FRACTION OF TOTAL FOR A DEFINED COMBINATION OF UNRESOLVED SUBSTANCES
D	DETECTED, VALUE IS BELOW DETECTION LIMIT SHOWN
GF	GRAPHITE FURNACE
I	INTERFERENCE FROM COELUTING PEAKS; REPORTED VALUE IS AN APPROXIMATED VALUE
NC	NOT CONFIRMED ON SECOND COLUMN
U	UNDETECTED AT DETECTION LIMIT SHOWN
+	Holding Time Exceeded for organochlorine pesticides/PCBs, organophosphorus pesticides and chlorinated herbicides only; see Page H-304 for the new analytical results for the said parameters.
*	Holding Time was exceeded for purgeable halocarbons, aromatic volatile organics and mercury; was resampled for the parameters in Sept. 1987; see Page H-296, H-297 for new results.
**	Holding Time was exceeded for mercury only; was resampled for the parameter in Sept. 1987; see Page H-305 - H-307 for new results.

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT

GC 2nd Column Confirmations

Date of Report: 29-apr-1987

Samples will be held for two weeks after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Release Approval

Laboratory Identification	86350001	86350002	86350003	86350004	86350005	86350006
Client Identification	EW-1 (1) +	SW-30	SW-31 *	SW-32*	SD-30	SD-31
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
		UG/L	UG/L	UG/L		
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	0.04	0.20	0.12	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	0.22	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	NR	NR	6.6	19	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350001	86350002	86350003	86350004	86350005	86350006
Client Identification	EW-1 (1) +	SW-30	SW-31*	SW-32*	SD-30	SD-31
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NC	NR	NR
		UG/L	UG/L	UG/L		
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR
	UG/L					
PEST/PCB'S (METH 608 CMPDS)						
4,4'-DDD	NR	NR	NR	NR	NR	NR
4,4'-DDE	NR	NR	NR	NR	NR	NR
4,4'-DDT	NR	NR	NR	NR	NR	NR
A-BHC	NR	NR	NR	NR	NR	NR
ALDRIN	NR	NR	NR	NR	NR	NR
B-BHC	5.6	NR	NR	NR	NR	NR
CHLORDANE	NR	NR	NR	NR	NR	NR
D-BHC	NR	NR	NR	NR	NR	NR
DIELDRIN	NR	NR	NR	NR	NR	NR
ENDOSULFAN I	NR	NR	NR	NR	NR	NR
ENDOSULFAN II	NR	NR	NR	NR	NR	NR
ENDOSULFAN SULFATE	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350001	86350002	86350003	86350004	86350005	86350006
Client Identification	EW-1 (1) +	SW-30	SW-31 *	SW-32 *	SD-30	SD-31
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
ENDRIN	NR	NR	NR	NR	NR	NR
ENDRIN ALDEHYDE	NR	NR	NR	NR	NR	NR
G-BHC(LINDANE)	NR	NR	NR	NR	NR	NR
HEPTACHLOR	NR	NR	NR	NR	NR	NR
HEPTACHLOR EPOXIDE	NR	NR	NR	NR	NR	NR
PCB-1016	NR	NR	NR	NR	NR	NR
PCB-1221	NR	NR	NR	NR	NR	NR
PCB-1232	NR	NR	NR	NR	NR	NR
PCB-1242	NR	NR	NR	NR	NR	NR
PCB-1248	NR	NR	NR	NR	NR	NR
PCB-1254	NR	NR	NR	NR	NR	NR
PCB-1260	NR	NR	NR	NR	NR	NR
TOXAPHENE	NR	NR	NR	NR	NR	NR
	UG/L					
ORGANOPHOSPHORUS PESTICIDES (METH 614 CMPDS)						
AZINPHOS METHYL	NR	NR	NR	NR	NR	NR
DEMETON-S	NR	NR	NR	NR	NR	NR
DIAZINON	NR	NR	NR	NR	NR	NR
DISULFOTON	NR	NR	NR	NR	NR	NR
ETHION	NR	NR	NR	NR	NR	NR
MALATHION	350	NR	NR	NR	NR	NR
PARATHION,ETHYL	NC	NR	NR	NR	NR	NR
PARATHION,METHYL	NC	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350007	86350008	86350009	86350010	86350011	86350012
Client Identification	SD-32	TS-1	TS-2	TS-3	TS-4	TS-5
Matrix Type	SEDIMENTS	SOIL	SOIL	SOIL	SOIL	SOIL
PCB'S (7 AROCHLORS) (METHOD 608 CMPDS)			UG/KG			
PCB-1016	NR	NR	NR	NR	NR	NR
PCB-1221	NR	NR	NR	NR	NR	NR
PCB-1232	NR	NR	NR	NR	NR	NR
PCB-1242	NR	NR	NR	NR	NR	NR
PCB-1248	NR	NR	NR	NR	NR	NR
PCB-1254	NR	NR	NR	NR	NR	NR
PCB-1260	NR	NR	150	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350013	86350014	86350015	86350016	86350017	86350018
Client Identification	SW-1	SW-2	SW-3	SW-4	SD-1	SD-2
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
	UG/L	UG/L	UG/L	UG/L		
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NC	0.04	NR	NC	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NC	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	0.73	0.85	1.4	10	NR	NR
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350013	86350014	86350015	86350016	86350017	86350018
Client Identification	SW-1	SW-2	SW-3	SW-4**	SD-1	SD-2
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
	UG/L	UG/L	UG/L	UG/L		
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350019	86350020	86350021	86350022	86350023	86350024
Client Identification	SD-3	SD-4**	SW-5**	SW-6 **	SW-7 **	SW-8
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
			UG/L	UG/L	UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	NR	0.09 I	0.18	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	0.08
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	NR	NR	5.5	8.3	330	0.59
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350019	86350020	86350021	86350022	86350023	86350024
Client Identification	SD-3	SD-4**	SW-5 **	SW-6 **	SW-7**	SW-8
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350025	86350026	86350027	86350028	86350029	86350030
Client Identification	SD-5 **	SD-6 **	SD-7 **	SD-8	SW-9	SW-10
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
					UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	NR	NR	NR	NR	0.62	0.58
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350025	86350026	86350027	86350028	86350029	86350030
Client Identification	SD-5 **	SD-6 **	SD-7 **	SD-8	SW-9	SW-10
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
PURGEABLE AROMATICS (METH 602 CMPDS)					UG/L	UG/L
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350031	86350032	86350033	86350034	86350035	86350036
Client Identification	SW-11	SW-12	SD-9	SD-10	SD-11	SD-12
Matrix Type	WATER	WATER	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS
	UG/L	UG/L				
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	0.06	NR	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	0.67	30	NR	NR	NR	NR
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350031	86350032	86350033	86350034	86350035	86350036
Client Identification	SW-11	SW-12	SD-9	SD-10	SD-11	SD-12
Matrix Type	WATER	WATER	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NC	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
PURGEABLE AROMATICS (METH 602 CMPDS)	UG/L	UG/L				
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350037	86350038	86350039	86350040	86350041	86350042
Client Identification	SW-13	SW-14 **	SW-15	SW-16	SD-13	SD-14 **
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
	UG/L	UG/L	UG/L	UG/L		
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	0.56	0.06	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	5.2	8.3	66	28	NR	NR
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350037	86350038	86350039	86350040	86350041	86350042
Client Identification	SW-13	SW-14 **	SW-15	SW-16	SD-13	SD-14 **
Matrix Type	WATER	WATER	WATER	WATER	SEDIMENTS	SEDIMENTS
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
	UG/L	UG/L	UG/L	UG/L		
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350043	86350044	86350045	86350046	86350047	86350048
Client Identification	SD-15	SD-16	SW-18*	SW-19	SW-20*	SW-21*
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
			UG/L	UG/L	UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	1.5	NR	15	110 C
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	0.09
1,1-DICHLOROETHANE	NR	NR	NR	NR	0.64	4.3
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	1.6
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	0.11
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	NR	NR	1.1	1.1	1.0	1.7
TETRACHLOROETHENE	NR	NR	NR	NR	0.05	0.29
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350043	86350044	86350045	86350046	86350047	86350048
Client Identification	SD-15	SD-16	SW-18 *	SW-19	SW-20*	SW-21*
Matrix Type	SEDIMENTS	SEDIMENTS	WATER	WATER	WATER	WATER
TRICHLOROETHENE	NR	NR	NR	NR	NR	110 C
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
PURGEABLE AROMATICS (METH 602 CMPDS)			UG/L	UG/L	UG/L	UG/L
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350049	86350050	86350051	86350052	86350053	86350054
Client Identification	SD-18 **	SD-19	SD-20 **	SD-21 **	SW-22	SW-23*
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
					UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	NR	NR	NR	NR	15	0.71
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350049	86350050	86350051	86350052	86350053	86350054
Client Identification	SD-18 **	SD-19	SD-20 **	SD-21 **	SW-22	SW-23 *
Matrix Type	SEDIMENTS	SEDIMENTS	SEDIMENTS	SEDIMENTS	WATER	WATER
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NC	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
					UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350055	86350056	86350057	86350058	86350059	86350060
Client Identification	SW-24	SD-22	SD-23	FB1 TRIP BLANK	TS-6	TS-7
Matrix Type	WATER	SEDIMENTS	SEDIMENTS	WATER	SOIL	SOIL
	UG/L					
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	110	NR	NR	NR	NR	NR
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350055	86350056	86350057	86350058	86350059	86350060
Client Identification	SW-24	SD-22	SD-23	FB1 TRIP BLANK	TS-6	TS-7
Matrix Type	WATER	SEDIMENTS	SEDIMENTS	WATER	SOIL	SOIL
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NC	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
	UG/L					
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

Date of Report: 29-May-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86350061	86350062	86350063	86350065	86350067	86350069
Client Identification	ES1 (2)	ES-2	ES-3	SD-21 DUP	SW-16 DUP	ES-2 DUP
Matrix Type	SOIL	SOIL	SOIL	SEDIMENTS	WATER	SOIL
	UG/KG	UG/KG	UG/KG			
PEST/PCB'S (METH 608 CMPDS)						
4,4'-DDD	NR	NR	NR	NR	NR	NR
4,4'-DDE	160	51	12	NR	NR	46
4,4'-DDT	170	37	5.6	NR	NR	32
A-BHC	NR	NR	NR	NR	NR	NR
ALDRIN	NC	NC	NR	NR	NR	NR
B-BHC	NR	NR	NR	NR	NR	NR
CHLORDANE	NR	NR	NR	NR	NR	NR
D-BHC	NR	NR	NR	NR	NR	NR
DIELDRIN	23	NR	NR	NR	NR	NR
ENDOSULFAN I	NR	NR	NR	NR	NR	NR
ENDOSULFAN II	NR	NR	NR	NR	NR	NR
ENDOSULFAN SULFATE	NR	NR	NR	NR	NR	NR
ENDRIN	NR	NR	NR	NR	NR	NR
ENDRIN ALDEHYDE	NR	NR	NR	NR	NR	NR
G-BHC(LINDANE)	NR	NR	NR	NR	NR	NR
HEPTACHLOR	NR	NR	NR	NR	NR	NR
HEPTACHLOR EPOXIDE	4.5	NR	NR	NR	NR	NR
PCB-1016	NR	NR	NR	NR	NR	NR
PCB-1221	NR	NR	NR	NR	NR	NR
PCB-1232	NR	NR	NR	NR	NR	NR
PCB-1242	NR	NR	NR	NR	NR	NR
PCB-1248	NR	NR	NR	NR	NR	NR
PCB-1254	NR	NR	NR	NR	NR	NR
PCB-1260	NR	NR	NR	NR	NR	NR
TOXAPHENE	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 2

30-apr-1987

Notes and Comments:

NR	Analysis Not Required
C	VALUE FOR SUBSTANCE IS A FRACTION OF TOTAL FOR A DEFINED COMBINATION OF UNRESOLVED SUBSTANCES
I	INTERFERENCE FROM COELUTING PEAKS; REPORTED VALUE IS AN APPROXIMATED VALUE
NC	NOT CONFIRMED ON SECOND COLUMN
U	UNDETECTED AT DETECTION LIMIT SHOWN
+	Holding Time was exceeded for organochlorine pesticides/PCBs, organophosphorus pesticides only; See Page H-304 for the new analytical results for the said parameters.
*	Holding Time was exceeded for purgeable halocarbons, aromatic volatile organics and mercury; see pages H-296 - H-297 for new results.
**	Holding Time was exceeded for mercury only; was resampled for the parameter in Sept. 1987; see Pages H-305 - H307 for new results.

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT

Date of Report: 01-may-1987

Samples will be held for two weeks
after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

Release Approval

Laboratory Identification	86353004		86353005		86353006		86353007		86353008		86353009	
Client Identification	GW-1 *		GW-2 *		GW-8 *		GW-9*		GW-10 *		GW-3 *	
Matrix Type	WATER		WATER		WATER		WATER		WATER		WATER	
	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
PHOSPHATE	26	U	26	U	26	U	26	U	26	U	26	U
	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CADMIUM (TOTAL)	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CHROMIUM (TOTAL)	50	U	50	U	50	U	50	U	50	U	50	U
	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
LEAD (TOTAL)	100	U	100	U	100	U	100	U	100	U	100	U
	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
MANGANESE (TOTAL)	54		51		470		14		26		33	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86353010	86353011	86353012	86353013	86353014	86353015	
Client Identification	GW-4 *	GW-5 *	GW-6 *	GW-7 *	SW-17	SD-17	
Matrix Type	WATER	WATER	WATER	WATER	WATER	SEDIMENTS	
						UG/KG	
VOLATILES, PRIORITY POLLUTANTS							
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	NR	1.9	U
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	3.4	U
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	2.5	U
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	2.4	U
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	1.4	U
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	1.4	U
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	3.0	U
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	5.0	U
BENZENE	NR	NR	NR	NR	NR	2.2	U
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	1.1	U
BROMOFORM	NR	NR	NR	NR	NR	2.4	U
BROMOMETHANE	NR	NR	NR	NR	NR	6.0	U
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	1.4	U
CHLOROBENZENE	NR	NR	NR	NR	NR	3.0	U
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	1.6	U
CHLOROETHANE	NR	NR	NR	NR	NR	2.6	U
CHLOROFORM	NR	NR	NR	NR	NR	0.80	U
CHLOROMETHANE	NR	NR	NR	NR	NR	0.40	U
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	1.0	U
ETHYL BENZENE	NR	NR	NR	NR	NR	0.49	
METHYLENE CHLORIDE	NR	NR	NR	NR	NR	1.4	U
TETRACHLOROETHENE	NR	NR	NR	NR	NR	2.0	U
TOLUENE	NR	NR	NR	NR	NR	3.0	U
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	0.80	U
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	2.5	U
TRICHLOROETHENE	NR	NR	NR	NR	NR	1.0	U
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	0.90	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86353010	86353011	86353012	86353013	86353014	86353015
Client Identification	GW-4 *	GW-5*	GW-6 *	GW-7 *	SW-17	SD-17
Matrix Type	WATER	WATER	WATER	WATER	WATER	SEDIMENTS
VINYL CHLORIDE	NR	NR	NR	NR	NR	3.0 U
					UG/L	
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	0.03 U	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	0.03 U	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	0.02 U	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	0.07 U	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	0.13 U	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	0.15 U	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	0.03 U	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	0.04 U	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	0.32 U	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	0.24 U	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	0.13 U	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	0.10 U	NR
BROMOFORM	NR	NR	NR	NR	0.20 U	NR
BROMOMETHANE	NR	NR	NR	NR	1.2 U	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	0.12 U	NR
CHLOROBENZENE	NR	NR	NR	NR	0.25 U	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	0.09 U	NR
CHLOROETHANE	NR	NR	NR	NR	0.52 U	NR
CHLOROFORM	NR	NR	NR	NR	0.05 U	NR
CHLOROMETHANE	NR	NR	NR	NR	0.08 U	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	0.20 U	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	1.8 U	NR
METHYLENE CHLORIDE	NR	NR	NR	NR	0.49	NR
TETRACHLOROETHENE	NR	NR	NR	NR	0.03 U	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	0.10 U	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	0.34 U	NR
TRICHLOROETHENE	NR	NR	NR	NR	0.12 U	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

FINAL REPORT

Date of Report: 01-may-1987

Laboratory Identification	86353010	86353011	86353012	86353013	86353014	86353015
Client Identification	GW-4 *	GW-5 *	GW-6 *	GW-7 *	SW-17	SD-17
Matrix Type	WATER	WATER	WATER	WATER	WATER	SEDIMENTS
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	0.50 U	NR
VINYL CHLORIDE	NR	NR	NR	NR	0.18 U	NR
PURGEABLE AROMATICS (METH 602 CMPDS)					UG/L	
1,2-DICHLOROBENZENE	NR	NR	NR	NR	0.15 U	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	0.32 U	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	0.40 U	NR
BENZENE	NR	NR	NR	NR	0.20 U	NR
CHLOROBENZENE	NR	NR	NR	NR	0.20 U	NR
ETHYL BENZENE	NR	NR	NR	NR	0.32 NC	NR
TOLUENE	NR	NR	NR	NR	0.20 U	NR
XYLENES, TOTAL	NR	NR	NR	NR	0.60 U	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86353010	86353011	86353012	86353013	86353014	86353015
Client Identification	GW-4 *	GW-5 *	GW-6 *	GW-7 *	SW-17	SD-17
Matrix Type	WATER	WATER	WATER	WATER	WATER	SEDIMENTS
	MG/L	MG/L	MG/L	MG/L		
PHOSPHATE	26 U	26 U	26 U	26 U	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

FINAL REPORT

Date of Report: 01-may-1987

Laboratory Identification	86353010	86353011	86353012	86353013	86353014	86353015
Client Identification	GW-4 *	GW-5 *	GW-6 *	GW-7*	SW-17	SD-17
Matrix Type	WATER	WATER	WATER	WATER	WATER	SEDIMENTS
CADMIUM (TOTAL)	UG/L 34	UG/L 5.0 U	UG/L 5.0 U	UG/L 5.0 U	NR	NR
CHROMIUM (TOTAL)	UG/L 50 U	UG/L 50 U	UG/L 50 U	UG/L 50 U	NR	NR
LEAD (TOTAL)	UG/L 100 U	UG/L 100 U	UG/L 100 U	UG/L 100 U	UG/L 9.0 GF	MG/KG 26 GF
MANGANESE (TOTAL)	UG/L 77	UG/L 31	UG/L 3.5	UG/L 1500	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

FINAL REPORT

Date of Report: 01-may-1987

Laboratory Identification	86353010	86353011	86353012	86353013	86353014	86353015
Client Identification	GW-4*	GW-5 *	GW-6 *	GW-7*	SW-17	SD-17
Matrix Type	WATER	WATER	WATER	WATER	WATER	SEDIMENTS
PETROLEUM HYDROCARBON - IR	NR	NR	NR	NR	MG/L 0.50 U	MG/KG 31 U
MOISTURE, PERCENT	NR	NR	NR	NR	NR	PERCENT 32

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

01-may-1987

Notes and Comments:

NR	Analysis Not Required
C	VALUE FOR SUBSTANCE IS A FRACTION OF TOTAL FOR A DEFINED COMBINATION OF UNRESOLVED SUBSTANCES
D	DETECTED, VALUE IS BELOW DETECTION LIMIT SHOWN
GF	GRAPHITE FURNACE
I	INTERFERENCE FROM COELUTING PEAKS; REPORTED VALUE IS AN APPROXIMATED VALUE
NC	NOT CONFIRMED ON SECOND COLUMN
U	UNDETECTED AT DETECTION LIMIT SHOWN
*	Holding times were exceeded for orthophosphate and incorrect method was used for lead detection; was resampled in Sept. 1987; see pages H-306 - H-307 for new results.

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT
GC 2nd Column Confirmations

Date of Report: 30-apr-1987

Samples will be held for two weeks after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

Release Approval

Laboratory Identification	86353010	86353011	86353012	86353013	86353014	86353015
Client Identification	GW-4	GW-5	GW-6	GW-7	SW-17	SD-17
Matrix Type	WATER	WATER	WATER	WATER	WATER	SEDIMENTS
					UG/L	
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	NR	NR	NR	NR	0.49	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

Date of Report: 30-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86353010	86353011	86353012	86353013	86353014	86353015
Client Identification	GW-4	GW-5	GW-6	GW-7	SW-17	SD-17
Matrix Type	WATER	WATER	WATER	WATER	WATER	SEDIMENTS
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
					UG/L	
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NC	NR
TOLUENE	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 3

01-may-1987

Notes and Comments:

NR	Analysis Not Required
C	VALUE FOR SUBSTANCE IS A FRACTION OF TOTAL FOR A DEFINED COMBINATION OF UNRESOLVED SUBSTANCES
I	INTERFERENCE FROM COELUTING PEAKS; REPORTED VALUE IS AN APPROXIMATED VALUE
NC	NOT CONFIRMED ON SECOND COLUMN
U	UNDETECTED AT DETECTION LIMIT SHOWN

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT

Date of Report: 01-may-1987

Samples will be held for two weeks after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

Release Approval

Laboratory Identification	86353016	86353017	86353018	86353019	86353020	86353021
Client Identification	GW-11	GW-12	GW-13	GW-14	GW-15	GW-16
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	0.26 NC	0.22 NC	0.03 U	0.03 U	0.03 U	0.03 U
1,1,2,2-TETRACHLOROETHANE	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
1,1,2-TRICHLOROETHANE	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
1,1-DICHLOROETHANE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,1-DICHLOROETHENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-DICHLOROETHANE	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
1,2-DICHLOROPROPANE	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
1,3-DICHLOROBENZENE	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
2-CHLOROETHYL VINYL ETHER	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMODICHLOROMETHANE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
BROMOFORM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
BROMOMETHANE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
CARBON TETRACHLORIDE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
CHLOROBENZENE	0.20 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLORODIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
CHLOROETHANE	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
CHLOROFORM	0.05 U	0.06	0.05 U	0.05 U	0.05 U	0.05 U
CHLOROMETHANE	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
CIS-1,3-DICHLOROPROPENE	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DICHLORODIFLUOROMETHANE	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
METHYLENE CHLORIDE	2.2	1.1	1.1	0.52	1.4	26

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

FINAL REPORT

Date of Report: 01-may-1987

Laboratory Identification	86353016	86353017	86353018	86353019	86353020	86353021
Client Identification	GW-11	GW-12	GW-13	GW-14	GW-15	GW-16
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
TETRACHLOROETHENE	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
TRANS-1,2-DICHLOROETHENE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
TRANS-1,3-DICHLOROPROPENE	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
TRICHLOROETHENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
TRICHLOROFLUOROMETHANE	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
VINYL CHLORIDE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	0.40 U	C.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,3-DICHLOROBENZENE	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
BENZENE	1.5 NC	0.20 U	0.80 NC	0.20 U	0.20 U	0.20 U
CHLOROBENZENE	0.20 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
ETHYL BENZENE	0.20 U	1.4	0.20 U	0.80 NC	0.20 U	0.20 U
TOLUENE	1.5 NC	0.70	0.20 U	0.40	0.20 U	0.20 U
XYLENES, TOTAL	0.60 U	5.3	0.60 U	0.60 U	0.60 U	0.60 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86353016	86353017	86353018	86353019	86353020	86353021
Client Identification	GW-11	GW-12	GW-13	GW-14	GW-15	GW-16
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
PETROLEUM HYDROCARBON - IR	0.50 U	0.80	2.0	1.9	6.8	3.3

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86353022	86353023	86353030
Client Identification	FB-1 TRIP BLANK	LAB BLANK	GW-16 DUP
Matrix Type	WATER	WATER	WATER
		UG/L	
PURGEABLE HALOCARBONS (METH 601 CMPDS)			
1,1,1-TRICHLOROETHANE	NR	0.03 U	NR
1,1,2,2-TETRACHLOROETHANE	NR	0.03 U	NR
1,1,2-TRICHLOROETHANE	NR	0.02 U	NR
1,1-DICHLOROETHANE	NR	0.07 U	NR
1,1-DICHLOROETHENE	NR	0.13 U	NR
1,2-DICHLOROBENZENE	NR	0.40 U	NR
1,2-DICHLOROETHANE	NR	0.03 U	NR
1,2-DICHLOROPROPANE	NR	0.04 U	NR
1,3-DICHLOROBENZENE	NR	0.30 U	NR
1,4-DICHLOROBENZENE	NR	0.40 U	NR
2-CHLOROETHYL VINYL ETHER	NR	0.13 U	NR
BROMODICHLOROMETHANE	NR	0.10 U	NR
BROMOFORM	NR	0.20 U	NR
BROMOMETHANE	NR	1.2 U	NR
CARBON TETRACHLORIDE	NR	0.12 U	NR
CHLOROBENZENE	NR	0.25 U	NR
CHLORODIBROMOMETHANE	NR	0.09 U	NR
CHLOROETHANE	NR	0.52 U	NR
CHLOROFORM	NR	0.05 U	NR
CHLOROMETHANE	NR	0.08 U	NR
CIS-1,3-DICHLOROPROPENE	NR	0.20 U	NR
DICHLORODIFLUOROMETHANE	NR	1.8 U	NR
METHYLENE CHLORIDE	NR	0.59	NR
TETRACHLOROETHENE	NR	0.03 U	NR
TRANS-1,2-DICHLOROETHENE	NR	0.10 U	NR
TRANS-1,3-DICHLOROPROPENE	NR	0.34 U	NR
TRICHLOROETHENE	NR	0.12 U	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86353022	86353023	86353030
Client Identification	FB-1 TRIP BLANK	LAB BLANK	GW-16 DUP
Matrix Type	WATER	WATER	WATER
TRICHLOROFLUOROMETHANE	NR	0.50 U	NR
VINYL CHLORIDE	NR	0.18 U	NR
		UG/L	
PURGEABLE AROMATICS (METH 602 CMPDS)			
1,2-DICHLOROBENZENE	NR	0.40 U	NR
1,3-DICHLOROBENZENE	NR	0.30 U	NR
1,4-DICHLOROBENZENE	NR	0.40 U	NR
BENZENE	NR	0.20 U	NR
CHLOROBENZENE	NR	0.25 U	NR
ETHYL BENZENE	NR	0.20 U	NR
TOLUENE	NR	0.50	NR
XYLENES, TOTAL	NR	0.60 U	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	86353022	86353023	86353030
Client Identification	FB-1 TRIP BLANK	LAB BLANK	GW-16 DUP
Matrix Type	WATER	WATER	WATER
	MG/L	MG/L	
PETROLEUM HYDROCARBON - IR	2.6	0.50 U	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4 01-may-1987

Notes and Comments:

NO FIELD BLANK WAS SUPPLIED FOR VOA SAMPLES

NR	Analysis Not Required
C	VALUE FOR SUBSTANCE IS A FRACTION OF TOTAL FOR A DEFINED COMBINATION OF UNRESOLVED SUBSTANCES
I	INTERFERENCE FROM COELUTING PEAKS; REPORTED VALUE IS AN APPROXIMATED VALUE
NC	NOT CONFIRMED ON SECOND COLUMN
U	UNDETECTED AT DETECTION LIMIT SHOWN

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT
GC 2nd Column Confirmations

Date of Report: 30-apr-1987

Samples will be held for two weeks after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

Release Approval

Laboratory Identification	86353016	86353017	86353018	86353019	86353020	86353021
Client Identification	GW-11	GW-12	GW-13	GW-14	GW-15	GW-16
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NC	NC	NR	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	0.08	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	1.9	1.8	0.74	1.2	1.7	16

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

Date of Report: 30-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86353016	86353017	86353018	86353019	86353020	86353021
Client Identification	GW-11	GW-12	GW-13	GW-14	GW-15	GW-16
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
PURGEABLE AROMATICS (METH 602 CMPDS)	UG/L		UG/L	UG/L	UG/L	UG/L
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NC	NR	NC	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	3.5 1	NR	NR	NR	NR
TOLUENE	NC	2.3 1	NR	NC	NR	NR
XYLENES, TOTAL	NR	4.7	NR	0.20	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

Date of Report: 30-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86353022	86353023	86353030
Client Identification	FB-1 TRIP BLANK	LAB BLANK	GW-16 DUP
Matrix Type	WATER	WATER	WATER
		UG/L	
PURGEABLE HALOCARBONS (METH 601 CMPDS)			
1,1,1-TRICHLOROETHANE	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR
BROMOFORM	NR	NR	NR
BROMOMETHANE	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR
CHLOROBENZENE	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR
CHLOROETHANE	NR	NR	NR
CHLOROFORM	NR	NR	NR
CHLOROMETHANE	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR
METHYLENE CHLORIDE	NR	NR	NR
TETRACHLOROETHENE	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR

[redacted] See [redacted] and [redacted] ents [redacted] he F [redacted] age [redacted] is R [redacted]

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

Date of Report: 30-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	86353022	86353023	86353030
Client Identification	FB-1 TRIP BLANK	LAB BLANK	GW-16 DUP
Matrix Type	WATER	WATER	WATER
TRICHLOROETHENE	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR
		UG/L	
PURGEABLE AROMATICS (METH 602 CMPDS)			
BENZENE	NR	NR	NR
CHLOROBENZENE	NR	NR	NR
ETHYL BENZENE	NR	NR	NR
TOLUENE	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 4

01-may-1987

Notes and Comments:

NO FIELD BLANK WAS SUPPLIED FOR VOA SAMPLES

NR	Analysis Not Required
C	VALUE FOR SUBSTANCE IS A FRACTION OF TOTAL FOR A DEFINED COMBINATION OF UNRESOLVED SUBSTANCES
I	INTERFERENCE FROM COELUTING PEAKS; REPORTED VALUE IS AN APPROXIMATED VALUE
NC	NOT CONFIRMED ON SECOND COLUMN
U	UNDETECTED AT DETECTION LIMIT SHOWN

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT

Date of Report: 01-may-1987

Samples will be held for two weeks after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

Release Approval

Laboratory Identification	87016016		87016017		87016018		87016019		87016020		87016021	
Client Identification	GW-17		GW-18		GW-19		GW-20		GW-21		GW-22	
Matrix Type	WATER		WATER		WATER		WATER		WATER		WATER	
	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
PURGEABLE HALOCARBONS (METH 601 CMPDS)												
1,1,1-TRICHLOROETHANE	0.03	U	0.03	U	0.20		0.03	U	0.06		0.22	
1,1,2,2-TETRACHLOROETHANE	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
1,1,2-TRICHLOROETHANE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
1,1-DICHLOROETHANE	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
1,1-DICHLOROETHENE	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
1,2-DICHLOROBENZENE	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
1,2-DICHLOROETHANE	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	17	NC
1,2-DICHLOROPROPANE	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1,3-DICHLOROBENZENE	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
1,4-DICHLOROBENZENE	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
2-CHLOROETHYL VINYL ETHER	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
BROMODICHLOROMETHANE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
BROMOFORM	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
BROMOMETHANE	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
CARBON TETRACHLORIDE	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
CHLOROBENZENE	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
CHLORODIBROMOMETHANE	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
CHLOROETHANE	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U
CHLOROFORM	0.05	U	0.05	U	0.06	NC	0.05		0.10		0.05	U
CHLOROMETHANE	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
CIS-1,3-DICHLOROPROPENE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
DICHLORODIFLUOROMETHANE	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
METHYLENE CHLORIDE	1.1		0.25	U	6.2		19		18		160	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	87016016	87016017	87016018	87016019	87016020	87016021
Client Identification	GW-17	GW-18	GW-19	GW-20	GW-21	GW-22
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
TETRACHLOROETHENE	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
TRANS-1,2-DICHLOROETHENE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
TRANS-1,3-DICHLOROPROPENE	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
TRICHLOROETHENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
TRICHLOROFLUOROMETHANE	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
VINYL CHLORIDE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,4-DICHLOROBENZENE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
BENZENE	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
CHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
ETHYL BENZENE	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
TOLUENE	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 NC
XYLENES, TOTAL	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	1.0

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	87016016	87016017	87016018	87016019	87016020	87016021
Client Identification	GW-17	GW-18	GW-19	GW-20	GW-21	GW-22
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
LEAD (TOTAL)	10	1.9	3.9	30	10	2.2
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
PETROLEUM HYDROCARBON - IR	5.3	4.8	4.8	4.9	10	5.2

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	87016022		87016023		87016024		87016026	
Client Identification	GW-23		GW-24		LAB BLANK		GW-24 DUP	
Matrix Type	WATER		WATER		WATER		WATER	
	UG/L		UG/L		UG/L		UG/L	
PURGEABLE HALOCARBONS (METH 601 CMPDS)								
1,1,1-TRICHLOROETHANE	0.22		0.03	U	0.03	U	0.03	U
1,1,2,2-TETRACHLOROETHANE	0.03	U	0.03	U	0.03	U	0.03	U
1,1,2-TRICHLOROETHANE	0.02	U	0.02	U	0.02	U	0.02	U
1,1-DICHLOROETHANE	0.07	U	0.07	U	0.07	U	0.07	U
1,1-DICHLOROETHENE	0.13	U	0.13	U	0.13	U	0.13	U
1,2-DICHLOROBENZENE	0.15	U	0.15	U	0.15	U	0.15	U
1,2-DICHLOROETHANE	17		0.03	U	0.03	U	0.03	U
1,2-DICHLOROPROPANE	0.04	U	0.04	U	0.04	U	0.04	U
1,3-DICHLOROBENZENE	0.32	U	0.32	U	0.32	U	0.32	U
1,4-DICHLOROBENZENE	0.24	U	0.24	U	0.24	U	0.24	U
2-CHLOROETHYL VINYL ETHER	0.13	U	0.13	U	0.13	U	0.13	U
BROMODICHLOROMETHANE	0.10	U	0.10	U	0.10	U	0.10	U
BROMOFORM	0.20	U	0.20	U	0.20	U	0.20	U
BROMOMETHANE	1.2	U	1.2	U	1.2	U	1.2	U
CARBON TETRACHLORIDE	0.12	U	0.12	U	0.12	U	0.12	U
CHLOROBENZENE	0.25	U	0.25	U	0.25	U	0.25	U
CHLORODIBROMOMETHANE	0.09	U	0.09	U	0.09	U	0.09	U
CHLOROETHANE	0.52	U	0.52	U	0.52	U	0.52	U
CHLOROFORM	0.05	U	0.05	U	0.05	U	0.05	U
CHLOROMETHANE	0.08	U	0.08	U	0.08	U	0.08	U
CIS-1,3-DICHLOROPROPENE	0.02	U	0.02	U	0.02	U	0.02	U
DICHLORODIFLUOROMETHANE	1.8	U	1.8	U	1.8	U	1.8	U
METHYLENE CHLORIDE	0.80		0.53		0.25	U	1.1	
TETRACHLOROETHENE	0.03	U	0.03	U	0.03	U	0.03	U
TRANS-1,2-DICHLOROETHENE	0.10	U	0.10	U	0.10	U	0.10	U
TRANS-1,3-DICHLOROPROPENE	0.34	U	0.34	U	0.34	U	0.34	U
TRICHLOROETHENE	0.12	U	0.12	U	0.12	U	0.12	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

Date of Report: 01-may-1987

FINAL REPORT

Laboratory Identification	87016022	87016023	87016024	87016026
Client Identification	GW-23	GW-24	LAB BLANK	GW-24 DUP
Matrix Type	WATER	WATER	WATER	WATER
TRICHLOROFLUOROMETHANE	0.50 U	0.50 U	0.50 U	0.50 U
VINYL CHLORIDE	0.18 U	0.18 U	0.18 U	0.18 U
	UG/L	UG/L	UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)				
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.32 U	0.32 U	0.32 U	0.32 U
1,4-DICHLOROBENZENE	0.24 U	0.24 U	0.24 U	0.24 U
BENZENE	0.20 U	0.20 U	0.20 U	0.20 U
CHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U
ETHYL BENZENE	0.20 U	0.20 U	0.20 U	0.20 U
TOLUENE	0.20 U	0.20 U	0.20 U	0.20 U
XYLENES, TOTAL	0.60 U	0.60 U	0.60 U	0.60 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	87016022	87016023	87016024	87016026
Client Identification	GW-23	GW-24	LAB BLANK	GW-24 DUP
Matrix Type	WATER	WATER	WATER	WATER
	UG/L	UG/L		UG/L
LEAD (TOTAL)	3.3	2.5	NR	2.1
	MG/L	MG/L		
PETROLEUM HYDROCARBON - IR	11	4.9	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

01-may-1987

Notes and Comments:

NR	Analysis Not Required
C	VALUE FOR SUBSTANCE IS A FRACTION OF TOTAL FOR A DEFINED COMBINATION OF UNRESOLVED SUBSTANCES
GF	GRAPHITE FURNACE
I	INTERFERENCE FROM COELUTING PEAKS; REPORTED VALUE IS AN APPROXIMATED VALUE
NC	NOT CONFIRMED ON SECOND COLUMN
U	UNDETECTED AT DETECTION LIMIT SHOWN

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT
GC 2nd Column Confirmations

Date of Report: 29-apr-1987

Samples will be held for two weeks after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

Release Approval

Laboratory Identification	87016016	87016017	87016018	87016019	87016020	87016021
Client Identification	GW-17	GW-18	GW-19	GW-20	GW-21	GW-22
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	NR	NR	0.38 C	NR	0.45 C	0.11 C
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NC
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NC	0.08	0.09	NR
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	2.9	NR	18	14	5.4	0.97

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Date of Report: 29-apr-1987

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	87016016	87016017	87016018	87016019	87016020	87016021
Client Identification	GW-17	GW-18	GW-19	GW-20	GW-21	GW-22
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NR	NC
TOLUENE	NR	NR	NR	NR	NR	4.1
XYLENES, TOTAL	NR	NR	NR	NR	NR	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	87016022	87016023	87016024	87016026
Client Identification	GW-23	GW-24	LAB BLANK	GW-24 DUP
Matrix Type	WATER	WATER	WATER	WATER
	UG/L	UG/L	UG/L	
PURGEABLE HALOCARBONS (METH 601 CMPDS)				
1,1,1-TRICHLOROETHANE	0.08	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR
1,2-DICHLOROETHANE	17	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR
BROMOFORM	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR
METHYLENE CHLORIDE	0.99	1.1	NR	1.1
TETRACHLOROETHENE	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	87016022	87016023	87016024	87016026
Client Identification	GW-23	GW-24	LAB BLANK	GW-24 DUP
Matrix Type	WATER	WATER	WATER	WATER
TRICHLOROETHENE	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR
	UG/L	UG/L	UG/L	
PURGEABLE AROMATICS (METH 602 CMPDS)				
1,2-DICHLOROBENZENE	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 5

30-apr-1987

Notes and Comments:

NR	Analysis Not Required
C	VALUE FOR SUBSTANCE IS A FRACTION OF TOTAL FOR A DEFINED COMBINATION OF UNRESOLVED SUBSTANCES
I	INTERFERENCE FROM COELUTING PEAKS; REPORTED VALUE IS AN APPROXIMATED VALUE
NC	NOT CONFIRMED ON SECOND COLUMN
U	UNDETECTED AT DETECTION LIMIT SHOWN

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT

Date of Report: 30-apr-1987

Samples will be held for two weeks after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Release Approval

Laboratory Identification	87020007		87020008		87020009		87020010		87020011		87020012	
Client Identification	GW-25 *		GW-26 *		GW-28*		GW-29*		GW-30*		GW-31*	
Matrix Type	WATER		WATER		WATER		WATER		WATER		WATER	
	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS												
1,2,4-TRICHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
1,2-DICHLOROBENZENE	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U
1,2-DIPHENYLHYDRAZINE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
1,3-DICHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
1,4-DICHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4,6-TRICHLOROPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4-DICHLOROPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4-DIMETHYLPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
2,4-DINITROPHENOL	27	U	27	U	27	U	27	U	27	U	27	U
2,4-DINITROTOLUENE	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U
2,6-DINITROTOLUENE	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U
2-CHLORONAPHTHALENE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
2-CHLOROPHENOL	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
2-NITROPHENOL	12	U	12	U	12	U	12	U	12	U	12	U
3,3'-DICHLOROBENZIDENE	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U
4,6-DINITRO-2-METHYLPHENOL	40	U	40	U	40	U	40	U	40	U	40	U
4-BROMOPHENYL PHENYL ETHER	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
4-CHLORO-3-METHYLPHENOL	20	U	20	U	20	U	20	U	20	U	20	U
4-CHLOROPHENYL PHENYL ETHER	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
4-NITROPHENOL	20	U	20	U	20	U	20	U	20	U	20	U
ACENAPHTHENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
ACENAPHTHYLENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
ANTHRACENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020007		87020008		87020009		87020010		87020011		87020012	
Client Identification	GW-25*		GW-26*		GW-28*		GW-29*		GW-30*		GW-31*	
Matrix Type	WATER		WATER		WATER		WATER		WATER		WATER	
BENZIDINE	30	U	30	U	30	U	30	U	30	U	30	U
BENZO(A)ANTHRACENE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
BENZO(A)PYRENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
BENZO(B)FLUORANTHENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
BENZO(G,H,I)PERYLENE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
BENZO(K)FLUORANTHENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
BENZYL BUTYL PHTHALATE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-CHLOROETHOXY)METHANE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-CHLOROETHYL)ETHER	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-CHLOROISOPROPYL)ETHER	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
BIS(2-ETHYLHEXYL)PHTHALATE	4.0	U	4.0	U	4.0	U	6.9		4.8		4.0	U
CHRYSENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
DI-N-BUTYL PHTHALATE	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
DI-N-OCTYL PHTHALATE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
DIBENZO(A,H)ANTHRACENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
DIETHYL PHTHALATE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
DIMETHYL PHTHALATE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
FLUORENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
FLUOROANTHENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
HEXACHLOROBENZENE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
HEXACHLOROBUTADIENE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
HEXACHLOROCYCLOPENTADIENE	20	U	20	U	20	U	20	U	20	U	20	U
HEXACHLOROETHANE	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U
INDENO(1,2,3-C,D)PYRENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
ISOPHORONE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
N-NITROSODIPHENYLAMINE	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
N-NITROSODIPROPYLAMINE	20	U	20	U	20	U	20	U	20	U	20	U
NAPHTHALENE	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
NITROBENZENE	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U
PENTACHLOROPHENOL	20	U	20	U	20	U	20	U	20	U	20	U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020007	87020008	87020009	87020010	87020011	87020012
Client Identification	GW-25*	GW-26 *	GW-28 *	GW-29 *	GW-30*	GW-31 *
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
PHENANTHRENE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
PHENOL	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
PYRENE	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020007	87020008	87020009	87020010	87020011	87020012
Client Identification	GW-25*	GW-26 *	GW-28 *	GW-29 *	GW-30*	GW-31 *
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	0.26	0.03 U	0.11 NC	0.03 U	0.03 U	0.03 U
1,1,2,2-TETRACHLOROETHANE	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
1,1,2-TRICHLOROETHANE	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	2.7 NC
1,1-DICHLOROETHANE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,1-DICHLOROETHENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROBENZENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2-DICHLOROETHANE	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
1,2-DICHLOROPROPANE	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,4-DICHLOROBENZENE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
2-CHLOROETHYL VINYL ETHER	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMODICHLOROMETHANE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	4.0
BROMOFORM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.5
BROMOMETHANE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
CARBON TETRACHLORIDE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
CHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLORODIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	2.7 NC
CHLOROETHANE	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
CHLOROFORM	0.27	0.15	0.06 NC	0.05 U	0.12	18
CHLOROMETHANE	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
CIS-1,3-DICHLOROPROPENE	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	2.7 NC
DICHLORODIFLUOROMETHANE	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
METHYLENE CHLORIDE	0.68	0.61	0.38	0.30	0.40	0.43
TETRACHLOROETHENE	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
TRANS-1,2-DICHLOROETHENE	0.10 U	0.10 U	0.10 U	0.11 NC	0.10 U	0.10 U
TRANS-1,3-DICHLOROPROPENE	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
TRICHLOROETHENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020007	87020008	87020009	87020010	87020011	87020012
Client Identification	GW-25*	GW-26 *	GW-28 *	GW-29*	GW-30 *	GW-31 *
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
TRICHLOROFLUOROMETHANE	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
VINYL CHLORIDE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,3-DICHLOROBENZENE	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
BENZENE	0.20 U	0.20 U	0.20 U	0.41 NC	0.20 U	0.20 U
CHLOROBENZENE	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ETHYL BENZENE	0.20 U	0.20 U	0.20 U	0.20 U	0.56 NC	0.46 NC
TOLUENE	0.20 U	0.20 U	0.20 U	0.20 U	0.45	0.42 NC
XYLENES, TOTAL	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020007	87020008	87020009	87020010	87020011	87020012
Client Identification	GW-25*	GW-26*	GW-28*	GW-29 *	GW-30*	GW-31*
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3
ALKALINITY,BICARBONATE	27	330	130	820	370	32
	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3
ALKALINITY,CARBONATE	26	11 U	11 U	11 U	11 U	110
	MG/LCaCO3	MG/LCaCO3		MG/LCaCO3	MG/LCaCO3	MG/LCaCO3
ALKALINITY,TOTAL	53	330	130	820	370	140
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
ANIONS						
BROMIDE	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U
CHLORIDE	3200	27	30	26	33	32
FLUORIDE	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
NITRATE	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
NITRITE	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
PHOSPHATE	26 U	26 U	26 U	26 U	26 U	26 U
SULFATE	1900	64	500	150	i60	73

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 29-May-1987

FINAL REPORT

Laboratory Identification	87020007		87020008		87020009		87020010		87020011		87020012	
Client Identification	GW-25*		GW-26 *		GW-28*		GW-29*		GW-30*		GW-31*	
Matrix Type	WATER		WATER		WATER		WATER		WATER		WATER	
	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
ARSENIC (TOTAL)	44		2.0	U	11		2.0	U	2.0	U	2.0	U
	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
MERCURY-CVAA (TOTAL)	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
SELENIUM (TOTAL)	35		3.8	U	14		3.8	U	3.8	U	3.8	U
	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
ICAP METAL SCAN												
ALUMINUM (TOTAL)	640	U	640	U	640	U	640	U	640	U	640	U
ANTIMONY (TOTAL)	43	U	43	U	43	U	43	U	43	U	43	U
BARIUM (TOTAL)	80	U	80	U	80	U	80	U	80	U	80	U
BERYLLIUM (TOTAL)	47	U	47	U	47	U	47	U	47	U	47	U
BORON (TOTAL)	4200		310		60	U	1600		1000		60	U
CADMIUM (TOTAL)	30	U	30	U	30	U	30	U	30	U	30	U
CALCIUM (TOTAL)	1300000		120000		610000		330000		240000		8400	
CHROMIUM (TOTAL)	44	U	44	U	44	U	44	U	44	U	92	
COBALT (TOTAL)	53	U	53	U	53	U	53	U	53	U	53	U
COPPER (TOTAL)	53	U	53	U	53	U	53	U	53	U	53	U
IRON (TOTAL)	30	U	30	U	30	U	30	U	30	U	30	U
LEAD (TOTAL)	250	U	250	U	250	U	250	U	250	U	250	U
MAGNESIUM (TOTAL)	240000		47000		56000		120000		100000		2000	
MANGANESE (TOTAL)	50	U	50	U	95		2100		2000		50	U
MOLYBDENUM (TOTAL)	83	U	83	U	83	U	83	U	83	U	83	U
NICKEL (TOTAL)	30	U	30	U	30	U	30	U	30	U	30	U
POTASSIUM (TOTAL)	470000		660		110000		25000		21000		210000	
SILICA,COLORIMETRIC	4000		8600		5000		11000		7000		3800	
SILVER (TOTAL)	10	U	10	U	10	U	10	U	10	U	10	U
SODIUM (TOTAL)	1600000		12000		30000		38000		46000		38000	
THALLIUM (TOTAL)	530	U	530	U	530	U	530	U	530	U	530	U

See Notes and Comments on the Final Page of this Report.

See Notes and Comments on the Final Page of this Report.
Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020007	87020008	87020009	87020010	87020011	87020012
Client Identification	GW-25 *	GW-26 *	GW-28 *	GW-29 *	GW-30 *	GW-31 *
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
VANADIUM (TOTAL)	28 U	28 U	28 U	28 U	28 U	28 U
ZINC (TOTAL)	42 U	42 U	42 U	42 U	42 U	42 U
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
PETROLEUM HYDROCARBON - IR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
SOLIDS, TOTAL DISSOLVED	11000	500	2500	1600	1400	740

See Notes and Comments on the Final Page of this Report.
Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020013		87020014		87020015
Client Identification	GW-32*		LAB BLANK		GW-31D (DUP)*
Matrix Type	WATER		WATER		WATER
	UG/L		UG/L		
BASE/NEUTRAL AND ACID EXTRACTABLES, PRIORITY POLLUTANTS					
1,2,4-TRICHLOROBENZENE	4.0	U	4.0	U	NR
1,2-DICHLOROBENZENE	8.0	U	8.0	U	NR
1,2-DIPHENYLHYDRAZINE	4.0	U	4.0	U	NR
1,3-DICHLOROBENZENE	4.0	U	4.0	U	NR
1,4-DICHLOROBENZENE	4.0	U	4.0	U	NR
2,4,6-TRICHLOROPHENOL	4.0	U	4.0	U	NR
2,4-DICHLOROPHENOL	4.0	U	4.0	U	NR
2,4-DIMETHYLPHENOL	4.0	U	4.0	U	NR
2,4-DINITROPHENOL	27	U	27	U	NR
2,4-DINITROTOLUENE	8.0	U	8.0	U	NR
2,6-DINITROTOLUENE	8.0	U	8.0	U	NR
2-CHLORONAPHTHALENE	4.0	U	4.0	U	NR
2-CHLOROPHENOL	4.0	U	4.0	U	NR
2-NITROPHENOL	12	U	12	U	NR
3,3'-DICHLOROBENZIDENE	8.0	U	8.0	U	NR
4,6-DINITRO-2-METHYLPHENOL	40	U	40	U	NR
4-BROMOPHENYL PHENYL ETHER	4.0	U	4.0	U	NR
4-CHLORO-3-METHYLPHENOL	20	U	20	U	NR
4-CHLOROPHENYL PHENYL ETHER	4.0	U	4.0	U	NR
4-NITROPHENOL	20	U	20	U	NR
ACENAPHTHENE	2.0	U	2.0	U	NR
ACENAPHTHYLENE	2.0	U	2.0	U	NR
ANTHRACENE	2.0	U	2.0	U	NR
BENZIDINE	30	U	30	U	NR
BENZO(A)ANTHRACENE	4.0	U	4.0	U	NR
BENZO(A)PYRENE	2.0	U	2.0	U	NR
BENZO(B)FLUORANTHENE	2.0	U	2.0	U	NR

See Notes and Comments on the Final Page of this Report.
Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020013		87020014		87020015
Client Identification	GW-32*		LAB BLANK		GW-31D (DUP)*
Matrix Type	WATER		WATER		WATER
BENZO(G,H,I)PERYLENE	4.0	U	4.0	U	NR
BENZO(K)FLUORANTHENE	2.0	U	2.0	U	NR
BENZYL BUTYL PHTHALATE	4.0	U	4.0	U	NR
BIS(2-CHLOROETHOXY)METHANE	4.0	U	4.0	U	NR
BIS(2-CHLOROETHYL)ETHER	4.0	U	4.0	U	NR
BIS(2-CHLOROISOPROPYL)ETHER	4.0	U	4.0	U	NR
BIS(2-ETHYLHEXYL)PHTHALATE	10		4.0	U	NR
CHRYSENE	2.0	U	2.0	U	NR
DI-N-BUTYL PHTHALATE	1.6	U	1.6	U	NR
DI-N-OCTYL PHTHALATE	2.0	U	2.0	U	NR
DIBENZO(A,H)ANTHRACENE	2.0	U	2.0	U	NR
DIETHYL PHTHALATE	2.0	U	2.0	U	NR
DIMETHYL PHTHALATE	2.0	U	2.0	U	NR
FLUORENE	2.0	U	2.0	U	NR
FLUOROANTHENE	2.0	U	2.0	U	NR
HEXACHLOROBENZENE	4.0	U	4.0	U	NR
HEXACHLOROBUTADIENE	4.0	U	4.0	U	NR
HEXACHLOROCYCLOPENTADIENE	20	U	20	U	NR
HEXACHLOROETHANE	8.0	U	8.0	U	NR
INDENO(1,2,3-C,D)PYRENE	2.0	U	2.0	U	NR
ISOPHORONE	4.0	U	4.0	U	NR
N-NITROSODIPHENYLAMINE	4.0	U	4.0	U	NR
N-NITROSODIPROPYLAMINE	20	U	20	U	NR
NAPHTHALENE	2.0	U	2.0	U	NR
NITROBENZENE	8.0	U	8.0	U	NR
PENTACHLOROPHENOL	20	U	20	U	NR
PHENANTHRENE	2.0	U	2.0	U	NR
PHENOL	4.0	U	4.0	U	NR
PYRENE	2.0	U	2.0	U	NR

See Notes and Comments on the Final Page of this Report.
Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020013		87020014		87020015	
Client Identification	GW-32*		LAB BLANK		GW-31D (DUP) *	
Matrix Type	WATER		WATER		WATER	
	UG/L		UG/L		UG/L	
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	0.03	U	0.03	U	0.03	U
1,1,2,2-TETRACHLOROETHANE	0.03	U	0.03	U	0.03	U
1,1,2-TRICHLOROETHANE	3.0	NC	0.02	U	2.3	NC
1,1-DICHLOROETHANE	0.07	U	0.07	U	0.07	U
1,1-DICHLOROETHENE	0.13	U	0.13	U	0.13	U
1,2-DICHLOROBENZENE	0.32	U	0.32	U	0.32	U
1,2-DICHLOROETHANE	0.03	U	0.03	U	0.03	U
1,2-DICHLOROPROPANE	0.04	U	0.04	U	0.04	U
1,3-DICHLOROBENZENE	0.15	U	0.15	U	0.15	U
1,4-DICHLOROBENZENE	0.24	U	0.24	U	0.24	U
2-CHLOROETHYL VINYL ETHER	0.13	U	0.13	U	0.13	U
BROMODICHLOROMETHANE	3.4	NC	0.10	U	2.8	
BROMOFORM	0.76		0.20	U	1.4	
BROMOMETHANE	1.2	U	1.2	U	1.2	U
CARBON TETRACHLORIDE	0.12	U	0.12	U	0.12	U
CHLOROBENZENE	0.25	U	0.25	U	0.25	U
CHLORODIBROMOMETHANE	3.0	NC	0.09	U	2.3	NC
CHLOROETHANE	0.52	U	0.52	U	0.52	U
CHLOROFORM	18		0.05	U	17	
CHLOROMETHANE	0.08	U	0.08	U	0.08	U
CIS-1,3-DICHLOROPROPENE	3.0	NC	0.20	U	2.3	NC
DICHLORODIFLUOROMETHANE	1.8	U	1.8	U	1.8	U
METHYLENE CHLORIDE	0.25	U	0.25	U	0.59	
TETRACHLOROETHENE	0.03	U	0.03	U	0.03	U
TRANS-1,2-DICHLOROETHENE	0.10	U	0.10	U	0.10	U
TRANS-1,3-DICHLOROPROPENE	0.34	U	0.34	U	0.34	U
TRICHLOROETHENE	0.12	U	0.12	U	0.12	U

See Notes and Comments on the Final Page of this Report.
Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020013	87020014	87020015
Client Identification	GW-32 *	LAB BLANK	GW-31D (DUP) *
Matrix Type	WATER	WATER	WATER
TRICHLOROFLUOROMETHANE	0.50 U	0.50 U	0.50 U
VINYL CHLORIDE	0.18 U	0.18 U	0.18 U
	UG/L	UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)			
1,2-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U
1,3-DICHLOROBENZENE	0.30 U	0.30 U	0.30 U
1,4-DICHLOROBENZENE	0.40 U	0.40 U	0.40 U
BENZENE	0.20 U	0.20 U	0.20 U
CHLOROBENZENE	0.20 U	0.20 U	0.20 U
ETHYL BENZENE	0.51 NC	0.20 U	0.62 NC
TOLUENE	0.53 NC	0.20 U	0.68
XYLENES, TOTAL	0.60 U	0.60 U	0.60 U

See Notes and Comments on the Final Page of this Report.
Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020013	87020014	87020015
Client Identification	GW-32 *	LAB BLANK	GW-31D (DUP)*
Matrix Type	WATER	WATER	WATER
	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3
ALKALINITY,BICARBONATE	32	0.50 U	30
	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3
ALKALINITY,CARBONATE	120	0.50 U	120
	MG/LCaCO3	MG/LCaCO3	MG/LCaCO3
ALKALINITY,TOTAL	150	0.50 U	150
	MG/L	MG/L	MG/L
ANIONS			
BROMIDE	6.9 U	6.9 U	6.9 U
CHLORIDE	33	6.5 U	32
FLUORIDE	2.3 U	2.3 U	2.3 U
NITRATE	7.5 U	7.5 U	7.5 U
NITRITE	3.6 U	3.6 U	3.6 U
PHOSPHATE	26 U	26 U	26 U
SULFATE	81	14 U	82

See Notes and Comments on the Final Page of this Report.
Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020013		87020014		87020015	
Client Identification	GW-32 *		LAB BLANK		GW-31D (DUP) *	
Matrix Type	WATER		WATER		WATER	
	UG/L		UG/L		UG/L	
ARSENIC (TOTAL)	2.0	U	0.031	U	2.0	U
	UG/L		UG/L		UG/L	
MERCURY-CVAA (TOTAL)	0.20	U	0.15	U	0.20	U
	UG/L		UG/L		UG/L	
SELENIUM (TOTAL)	3.8	U	0.031	U	3.8	U
	UG/L		UG/L		UG/L	
ICAP METAL SCAN						
ALUMINUM (TOTAL)	640	U	640	U	640	U
ANTIMONY (TOTAL)	43	U	43	U	43	U
BARIUM (TOTAL)	80	U	80	U	80	U
BERYLLIUM (TOTAL)	47	U	47	U	47	U
BORON (TOTAL)	60	U	60	U	60	U
CADMIUM (TOTAL)	30	U	30	U	30	U
CALCIUM (TOTAL)	7600		320	U	8100	
CHROMIUM (TOTAL)	44	U	44	U	78	
COBALT (TOTAL)	53	U	53	U	53	U
COPPER (TOTAL)	53	U	53	U	53	U
IRON (TOTAL)	30	U	30	U	30	U
LEAD (TOTAL)	250	U	250	U	250	U
MAGNESIUM (TOTAL)	1300		450	U	1500	
MANGANESE (TOTAL)	50	U	50	U	50	U
MOLYBDENUM (TOTAL)	83	U	83	U	83	U
NICKEL (TOTAL)	30	U	30	U	30	U
POTASSIUM (TOTAL)	220000		0.40	U	210000	
SILICA,COLORIMETRIC	2200		180	U	3500	
SILVER (TOTAL)	10	U	0.40	U	10	U
SODIUM (TOTAL)	40000		240	U	38000	
THALLIUM (TOTAL)	530	U	530	U	530	U

See Notes and Comments on the Final Page of this Report.
Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 30-apr-1987

FINAL REPORT

Laboratory Identification	87020013	87020014	87020015
Client Identification	GW-32*	LAB BLANK	GW-31D (DUP) *
Matrix Type	WATER	WATER	WATER
VANADIUM (TOTAL)	28 U	28 U	28 U
ZINC (TOTAL)	42 U	42 U	42 U
	MG/L		
PETROLEUM HYDROCARBON - IR	0.50 U	NR	NR
	MG/L		
SOLIDS, TOTAL DISSOLVED	820	NR	NR

See Notes and Comments on the Final Page of this Report.
Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

30-apr-1987

<u>Notes and Comments</u>:

NR	Analysis Not Required
C	VALUE FOR SUBSTANCE IS A FRACTION OF TOTAL FOR A DEFINED COMBINATION OF UNRESOLVED SUBSTANCES
D	DETECTED, VALUE IS BELOW DETECTION LIMIT SHOWN
GF	GRAPHITE FURNACE
I	INTERFERENCE FROM COELUTING PEAKS; REPORTED VALUE IS AN APPROXIMATED VALUE
NC	NOT CONFIRMED ON SECOND COLUMN
U	UNDETECTED AT DETECTION LIMIT SHOWN
*	Holding times exceeded for mercury and orthophosphate only; was resampled in Sept. 1987 for the two parameters; see page H-307 for new results.

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

Science Applications International Corporation
Environmental Chemistry Division

Client: SAIC - DIV 835/OEHL
8400 WESTPARK
McCLEAN, VA 22102
Attn: PHIL SPOONER

FINAL REPORT
GC 2nd Column Confirmations

Date of Report: 29-apr-1987

Samples will be held for two weeks after the report is issued.

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Release Approval

Laboratory Identification	87020007	87020008	87020009	87020010	87020011	87020012
Client Identification	GW-25	GW-26	GW-28	GW-29	GW-30	GW-31
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PURGEABLE HALOCARBONS (METH 601 CMPDS)						
1,1,1-TRICHLOROETHANE	0.06	NR	NC	NR	NR	NR
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NC
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROPROPANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NR	NR	NR	NR	NR	10 C
BROMOFORM	NR	NR	NR	NR	NR	1.9
BROMOMETHANE	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NC
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	0.28	0.15	NC	NR	0.18	24
CHLOROMETHANE	NR	NR	NR	NR	NR	NR
CIS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NC
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	0.56	0.65	0.56	0.56	0.34	0.69

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Date of Report: 29-apr-1987

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	87020007	87020008	87020009	87020010	87020011	87020012
Client Identification	GW-25	GW-26	GW-28	GW-29	GW-30	GW-31
Matrix Type	WATER	WATER	WATER	WATER	WATER	WATER
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	NC	NR	NR
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	NR	NR	NR
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)						
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NC	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
ETHYL BENZENE	NR	NR	NR	NR	NC	NC
TOLUENE	NR	NR	NR	NR	4.8 I	NC
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	87020013	87020014	87020015	
Client Identification	GW-32	LAB BLANK	GW-31D (DUP)	
Matrix Type	WATER	WATER	WATER	
	UG/L	UG/L	UG/L	
PURGEABLE HALOCARBONS (METH 601 CMPDS)				
1,1,1-TRICHLOROETHANE	NR	NR	NR	
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	
1,1,2-TRICHLOROETHANE	NC	NR	NC	
1,1-DICHLOROETHANE	NR	NR	NR	
1,1-DICHLOROETHENE	NR	NR	NR	
1,2-DICHLOROBENZENE	NR	NR	NR	
1,2-DICHLOROETHANE	NR	NR	NR	
1,2-DICHLOROPROPANE	NR	NR	NR	
1,3-DICHLOROBENZENE	NR	NR	NR	
1,4-DICHLOROBENZENE	NR	NR	NR	
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	
BROMODICHLOROMETHANE	NC	NR	10	C
BROMOFORM	1.4	NR	1.6	
BROMOMETHANE	NR	NR	NR	
CARBON TETRACHLORIDE	NR	NR	NR	
CHLOROBENZENE	NR	NR	NR	
CHLORODIBROMOMETHANE	NC	NR	NC	
CHLOROETHANE	NR	NR	NR	
CHLOROFORM	25	NR	24	
CHLOROMETHANE	NR	NR	NR	
CIS-1,3-DICHLOROPROPENE	NC	NR	NC	
DICHLORODIFLUOROMETHANE	NR	NR	NR	
METHYLENE CHLORIDE	NR	NR	0.56	
TETRACHLOROETHENE	NR	NR	NR	
TRANS-1,2-DICHLOROETHENE	NR	NR	NR	
TRANS-1,3-DICHLOROPROPENE	NR	NR	NR	

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

Date of Report: 29-apr-1987

FINAL REPORT- GC 2nd Column Confirmations

Laboratory Identification	87020013	87020014	87020015
Client Identification	GW-32	LAB BLANK	GW-31D (DUP)
Matrix Type	WATER	WATER	WATER
TRICHLOROETHENE	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR
	UG/L	UG/L	UG/L
PURGEABLE AROMATICS (METH 602 CMPDS)			
1,2-DICHLOROBENZENE	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR
BENZENE	NR	NR	NR
CHLOROBENZENE	NR	NR	NR
ETHYL BENZENE	NC	NR	NC
TOLUENE	NC	NR	0.29 C
XYLENES, TOTAL	NR	NR	NR

See Notes and Comments on the Final Page of this Report.

Science Applications International Corporation
Environmental Chemistry Division

Project No. : 2-885-06-0624-00
Project Name: HANCOCK AFB
Shipment No.: 6

30-apr-1987

Notes and Comments:

NR	Analysis Not Required
C	VALUE FOR SUBSTANCE IS A FRACTION OF TOTAL FOR A DEFINED COMBINATION OF UNRESOLVED SUBSTANCES
I	INTERFERENCE FROM COELUTING PEAKS; REPORTED VALUE IS AN APPROXIMATED VALUE
NC	NOT CONFIRMED ON SECOND COLUMN
U	UNDETECTED AT DETECTION LIMIT SHOWN

REPORTED DETECTION LIMITS ARE INSTRUMENT DETECTION LIMITS CORRECTED TO SAMPLE CONDITIONS
REPORTED VALUES ARE NOT CORRECTED FOR ANALYTICAL BLANK
VALUES REPORTED ON A DRY WEIGHT BASIS (EXCLUDING VOLATILE AND BASE/NEUTRAL/ACID ANALYSIS)

LAST PAGE

PROJECT NAME: HANCOCK AFB

OEHL VOLATILES PRECISION DATA

COMMENTS:

1. REPLICATE RESULTS FOR FS-6-1 FOR OEHL VOLATILE ANALYSIS ARE BELOW DETECTION AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$ X 100

OEHL VOLATILES ACCURACY DATA

SAIC I.D.	86-329025	86-329026
CLIENT I.D.	FS-6-1	FS-6-1SP
MATRIX TYPE	SOIL	SOIL

OEHL VOLATILES	SAMPLE RESULT (UG)	SPIKED SAMPLE (UG)	AMOUNT SPIKED (UG)	PERCENT RECOVERY (%)
1,1-DICHLOROETHENE	ND	81	50	160
TRICHLOROETHENE	ND	69	50	138
CHLOROBENZENE	ND	41	50	82
TOLUENE	ND	42	50	84
BENZENE	ND	50	50	100

COMMENTS:

1. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE - SAMPLE RESULT}}{\text{AMOUNT OF SPIKED ADDED}}$ X 100

2. ND = NOT DETECTED

PROJECT NAME: HANCOCK AFB

OEHL VOLATILES PRECISION DATA

COMMENTS:

1. REPLICATE RESULTS FOR SD-19 FOR OEHL VOLATILE ANALYSIS ARE BELOW DETECTION AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$ X 100

OEHL VOLATILES ACCURACY DATA

SAIC I.D.	86-350050	86-350050
CLIENT I.D.	SD-19	SD-19SP
MATRIX TYPE	SOIL	SOIL

OEHL VOLATILES	SAMPLE RESULT (UG)	SPIKED SAMPLE (UG)	AMOUNT SPIKED (UG)	PERCENT RECOVERY (%)
1,1-DICHLOROETHENE	ND	75	50	150
TRICHLOROETHENE	ND	78	50	160
CHLOROBENZENE	ND	54	50	108
TOLUENE	ND	46	50	92
BENZENE	ND	53	50	106

COMMENTS:

1. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE - SAMPLE RESULT}}{\text{AMOUNT OF SPIKED ADDED}}$ X 100

2. ND = NOT DETECTED

PROJECT NAME: HANCOCK AFB

BASE/NEUTRAL AND ACIDS, PRIORITY POLLUTANTS PRECISION DATA

SAIC ID	86-329025	86-329025DUP
CLIENT ID	FS-6-1	FS-6-1DUP
MATRIX TYPE	SOIL	SOIL

BASE/NEUTRALS/ACIDS	SAMPLE RESULT (UG/KG)	DUPLICATE (UG/KG)	RPD (%)
BENZO(A)ANTHRACENE	410	710	54
BENZO(A)PYRENE	440	450	2
BENZO(G,H,I) PERYLENE	250	190	27
BENZO (K)FLUORANTHENE	500	380	27
FLUORANTHENE	960	820	16
INDENO(1,2,3-C,D)PYRENE	270	190	35
PYRENE	1200	1300	8

COMMENTS:

1. REPLICATE RESULTS OF THE OTHER ANALYTES IN BASE/NEUTRALS AND ACIDS ANALYSIS ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$ X 100

PROJECT NAME: HANCOCK AFB

BASE/NEUTRAL AND ACIDS, PRIORITY POLLUTANTS ACCURACY DATA

SAIC I.D.	86-329025	86-329025SP
CLIENT I.D.	FS-6-1	FS-6-1
MATRIX TYPE	SOIL	SOIL

BASE/NEUTRAL/ACIDS	SAMPLE RESULT (UG/KG)	SPIKED SAMPLE (UG/KG)	AMOUNT SPIKED (UG/KG)	PERCENT RECOVERY (%R)
1,2,4-TRICHLOROBENZENE	ND	2200	4000	55
ACENAPHTHENE	ND	2600	4000	65
2,4-DINITROTOLUENE	ND	2900	4000	73
PYRENE	1200	5600	4000	110
N-NITROSODI-N-PROPYLAMINE	ND	2400	4000	60
1,4-DICHLOROBENZENE	ND	1400	4000	35
PENTACHLOROPHENOL	ND	1100	8000	14
PHENOL	ND	5100	8000	64
2-CHLOROPHENOL	ND	4400	8000	55
4-CHLORO-3-METHYLPHENOL	ND	6000	8000	75
4-NITROPHENOL	ND	3200	8000	40

COMMENTS:

1. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

2. ND - NOT DETECTED

PROJECT NAME: HANCOCK AFB

BASE/NEUTRAL AND ACIDS, PRIORITY POLLUTANTS PRECISION DATA

COMMENTS:

1. REPLICATE RESULTS FOR SAMPLE SD-21 FOR BASE/NEUTRALS AND ACIDS ANALYSIS ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$ X 100

BASE/NEUTRAL AND ACIDS, PRIORITY POLLUTANTS ACCURACY DATA

SAIC I.D.	86-350052	86-350052SP
CLIENT I.D.	SD-21	SD-21SP
MATRIX TYPE	SOIL	SOIL

BASE/NEUTRAL/ACIDS	SAMPLE RESULT (UG/KG)	SPIKED SAMPLE (UG/KG)	AMOUNT SPIKED (UG/KG)	PERCENT RECOVERY (%R)
1,2,4-TRICHLOROBENZENE	ND	5000	9400	53
ACENAPHTHENE	ND	6700	9400	71
2,4-DINITROTOLUENE	ND	6500	9400	69
PYRENE	ND	10000	9400	106
N-NITROSODI-N-PROPYLAMINE	ND	7100	9400	76
1,4-DICHLOROBENZENE	ND	4300	9400	46
PENTACHLOROPHENOL	ND	4800	18800	26
PHENOL	ND	13600	18800	72
2-CHLOROPHENOL	ND	14000	18800	74
4-CHLORO-3-METHYLPHENOL	ND	16000	18800	85
4-NITROPHENOL	ND	6000	18800	32

COMMENTS:

1. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

2. ND - NOT DETECTED

PROJECT NAME: HANCOCK AFB

BASE/NEUTRAL AND ACIDS, PRIORITY POLLUTANTS PRECISION DATA

COMMENTS:

1. REPLICATE RESULTS OF SAMPLE GW-28 FOR BASE/NEUTRALS AND ACIDS ANALYSIS ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$ X 100

BASE/NEUTRAL AND ACIDS, PRIORITY POLLUTANTS ACCURACY DATA

SAIC I.D.	87-020009	87-020009SP
CLIENT I.D.	GW-28	GW-28SP
MATRIX TYPE	WATER	WATER

BASE/NEUTRAL/ACIDS	SAMPLE RESULT (UG/L)	SPIKED SAMPLE (UG/L)	AMOUNT SPIKED (UG/L)	PERCENT RECOVERY (%R)
1,2,4-TRICHLOROBENZENE	ND	26	100	26
ACENAPHTHENE	ND	35	100	35
2,4-DINITROTOLUENE	ND	51	100	51
PYRENE	ND	55	100	55
N-NITROSODI-N-PROPYLAMINE	ND	46	100	46
1,4-DICHLOROBENZENE	ND	28	100	28
PENTACHLOROPHENOL	ND	30	200	15
PHENOL	ND	31	200	16
2-CHLOROPHENOL	ND	86	200	43
4-CHLORO-3-METHYLPHENOL	ND	93	200	47
4-NITROPHENOL	ND	9	200	5

COMMENTS:

1. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

2. ND - NOT DETECTED

PROJECT NAME: HANCOCK AFB

BASE/NEUTRAL AND ACIDS, PRIORITY POLLUTANTS PRECISION DATA

SAIC ID	87-020010	87-020010DUP
CLIENT ID	GW-29	GW-29DUP
MATRIX TYPE	WATER	WATER

BASE/NEUTRALS/ACIDS	SAMPLE RESULT (UG/L)	DUPLICATE (UG/L)	RPD (%)
BIS(2-ETHYLHEXYL) PHTHALATE	6.9	9.3	30

COMMENTS:

1. REPLICATE RESULTS OF THE OTHER ANALYTES IN BASE/NEUTRALS AND ACIDS ANALYSIS ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$ X 100

PROJECT NAME: HANCOCK AFB

BASE/NEUTRAL AND ACIDS, PRIORITY POLLUTANTS ACCURACY DATA

SAIC I.D.	87-020010	87-020010SP
CLIENT I.D.	GW-29	GW-29SP
MATRIX TYPE	WATER	WATER

BASE/NEUTRAL/ACIDS	SAMPLE RESULT (UG/L)	SPIKED SAMPLE (UG/L)	AMOUNT SPIKED (UG/L)	PERCENT RECOVERY (%R)
1,2,4-TRICHLOROBENZENE	ND	62	100	62
ACENAPHTHENE	ND	72	100	72
2,4-DINITROTOLUENE	ND	86	100	86
PYRENE	ND	124	100	124
N-NITROSODI-N-PROPYLAMINE	ND	75	100	75
1,4-DICHLOROBENZENE	ND	53	100	53
PENTACHLOROPHENOL	ND	113	200	57
PHENOL	ND	65	200	33
2-CHLOROPHENOL	ND	152	200	76
4-CHLORO-3-METHYLPHENOL	ND	162	200	81
4-NITROPHENOL	ND	30	200	15

COMMENTS:

1. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

2. ND - NOT DETECTED

PROJECT NAME: HANCOCK AFB

BASE/NEUTRAL AND ACIDS, PRIORITY POLLUTANTS PRECISION DATA

SAIC ID	87-020011	87-020011DUP
CLIENT ID	GW-30	GW-30DUP
MATRIX TYPE	WATER	WATER

BASE/NEUTRALS/ACIDS	SAMPLE RESULT (UG/L)	DUPLICATE (UG/L)	RPD (%)
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	4.6	4

COMMENTS:

1. REPLICATE RESULTS OF THE OTHER ANALYTES IN BASE/NEUTRALS AND ACIDS ANALYSIS ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$ X 100

PROJECT NAME: HANCOCK AFB

BASE/NEUTRAL AND ACIDS, PRIORITY POLLUTANTS ACCURACY DATA

SAIC I.D.	87-020011	87-020011SP
CLIENT I.D.	GW-30	GW-30SP
MATRIX TYPE	WATER	WATER

BASE/NEUTRAL/ACIDS	SAMPLE RESULT (UG/L)	SPIKED SAMPLE (UG/L)	AMOUNT SPIKED (UG/L)	PERCENT RECOVERY (%R)
1,2,4-TRICHLOROBENZENE	ND	44	100	44
ACENAPHTHENE	ND	62	100	62
2,4-DINITROTOLUENE	ND	73	100	73
PYRENE	ND	59	100	59
N-NITROSODI-N-PROPYLAMINE	ND	66	100	66
1,4-DICHLOROBENZENE	ND	37	100	37
PENTACHLOROPHENOL	ND	98	200	49
PHENOL	ND	71	200	35
2-CHLOROPHENOL	ND	130	200	75
4-CHLORO-3-METHYLPHENOL	ND	138	200	69
4-NITROPHENOL	ND	32	200	16

COMMENTS:

1. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

2. ND - NOT DETECTED

PROJECT NAME: HANCOCK AFB

PURGEABLE HALOCARBONS AND AROMATICS VOLATILES PRECISION DATA

SAIC I.D.	86-353024		86-353025		
CLIENT I.D.	SW-17MS		SW-17MSD		
MATRIX TYPE	WATER		WATER		
PURGEABLE HALOCARBONS	SAMPLE RESULT (UG/L)		DUPLICATE (UG/L)		RPD (%)
1,1,1-TRICHLOROETHANE	2.2		2.2		0
1,1,2,2-TETRACHLOROETHANE	3.7	**	3.7	**	0
1,1,2-TRICHLOROETHANE	5.8	***	5.8	***	0
1,1-DICHLOROETHANE	2.0		2.0		0
1,1-DICHLOROETHENE	1.8		1.9		5
1,2-DICHLOROBENZENE	2.1		2.1		0
1,2-DICHLOROETHANE	2.0		2.0		0
1,2-DICHLOROPROPANE	1.9		2.0		5
1,4-DICHLOROBENZENE	1.7		1.7		0
BROMODICHLOROMETHANE	1.9		2.0		5
BROMOFORM	2.6		2.7		4
CARBON TETRACHLORIDE	1.9		2.0		5
CHLOROBENZENE	1.9		1.9		0
CHLORODIBROMOMETHANE	5.8	***	5.8	***	0
CHLOROETHANE	1.7		1.7		0
CHLOROFORM	2.0		2.0		0
CIS-1,3-DICHLOROPROPENE	5.8	***	5.8	***	0
METHYLENE CHLORIDE	2.6		2.5		4
TETRACHLOROETHENE	3.7	**	3.6	**	3
TRANS-1,2-DICHLOROETHENE	1.9		2.0		5
TRANS-1,3-DICHLOROPROPENE	1.9		2.0		5
TRICHLOROETHENE	1.9		2.0		5
TRICHLOROFLUOROMETHANE	1.9		1.9		0
VINYL CHLORIDE	1.8	*	3.1	*	53 (1)
PURGEABLE AROMATICS					
1,2-DICHLOROBENZENE	2.0		2.0		0
1,4-DICHLOROBENZENE	2.0		2.0		0
BENZENE	3.9	**	4.0	**	2
CHLOROBENZENE	1.9		1.9		0
ETHYL BENZENE	2.1		2.3		9
TOLUENE	2.1		2.2		5
TOTAL XYLENES	1.9		1.9		0

COMMENTS:

1. THE FOLLOWING VOLATILE COMPOUNDS ARE NOT NORMALLY INCLUDED IN THE SPIKING SOLUTION UNLESS THESE ARE PRESENT AS POSITIVE HITS IN THE SAMPLE BEING ANALYZED. THE ABSENCE OF THESE COMPOUNDS IN SAMPLES SW-17MS AND SW-17MSD ARE NOT APPLICABLE FOR RPD DETERMINATION.

2-CHLOROETHYL VINYL ETHER	DICHLORODIFLUOROMETHANE
BROMOMETHANE	1,3- DICHLOROBENZENE
CHLOROMETHANE	

2. HIGH RPD VALUE IS DUE TO PRESENCE OF INTERFERING PEAK COELUTING WITH VINYL CHLORIDE IN SAMPLE SW-17MSD. REPORTED VALUE IS AN APPROXIMATION OF THE HIT ANALYTE.

3. ** = DOUBLET;THE PRESENCE OF TWO COELUTING HIT ANALYTES THAT CANNOT BE SEPARATED BY THE RECOMMENDED PRIMARY COLUMN OR SECONDARY COLUMN; REPORTED VALUE IS A FRACTION OF THE TOTAL VALUE OF THE UNRESOLVED SUBSTANCES.

4. *** = TRIPLET; THE PRESENCE OF THREE COELUTING HIT ANALYTES THAT CANNOT BE SEPARATED BY THE RECOMMENDED PRIMARY COLUMN OR SECONDARY COLUMN; REPORTED VALUE IS A FRACTION OF THE TOTAL VALUE OF THE UNRESOLVED SUBSTANCES.

5. I = PRESENCE OF AN INTERFERING PEAK WHICH IS NOT A HIT ANALYTE'S PEAK; VALUE REPORTED IS AN APPROXIMATED AMOUNT.

6. MS = MATRIX SPIKE; MSD = MATRIX SPIKE DUPLICATE

7. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}} \times 100$

PROJECT NAME: HANCOCK AFB

PURGEABLE HALOCARBONS AND AROMATICS ACCURACY DATA

SAIC I.D.	86-353014	86-353025
CLIENT I.D.	SW-17	SW-17MS
MATRIX TYPE	WATER	WATER

PURGEABLE HALOCARBONS	SAMPLE RESULT (UG/L)	SPIKED SAMPLE (UG/L)	AMOUNT SPIKED (UG/L)	PERCENT RECOVERY (%R)
1,1,1-TRICHLOROETHANE	ND	2.2	2.0	110
1,1,2,2-TETRACHLOROETHANE	ND	3.7 **	4.0	93
1,1,2-TRICHLOROETHANE	ND	5.8 ***	6.0	97
1,1-DICHLOROETHANE	ND	2.0	2.0	100
1,1-DICHLOROETHENE	ND	1.8	2.0	95
1,2-DICHLOROBENZENE	ND	2.1	2.0	105
1,2-DICHLOROETHANE	ND	2.0	2.0	100
1,2-DICHLOROPROPANE	ND	1.9	2.0	95
1,4-DICHLOROBENZENE	ND	1.7	2.0	85
BROMODICHLOROMETHANE	ND	1.9	2.0	95
BROMOFORM	ND	2.6	2.0	130
CARBON TETRACHLORIDE	ND	1.9	2.0	95
CHLOROBENZENE	ND	1.9	2.0	95
CHLORODIBROMOMETHANE	ND	5.8 ***	6.0	97
CHLOROETHANE	ND	1.7	2.0	85
CHLOROFORM	ND	2.0	2.0	100
CIS-1,3-DICHLOROPROPENE	ND	5.8 ***	6.0	97
METHYLENE CHLORIDE	0.49	2.6	2.0	81
TETRACHLOROETHENE	ND	3.7 **	4.0	93
TRANS-1,2-DICHLOROETHENE	ND	1.9	2.0	95
TRANS-1,3-DICHLOROPROPENE	ND	1.9	2.0	95
TRICHLOROETHENE	ND	1.9	2.0	95
TRICHLOROFLUOROMETHANE	ND	1.9	2.0	95
VINYL CHLORIDE	ND	1.8	2.0	90
PURGEABLE AROMATICS				
1,2-DICHLOROBENZENE	ND	2.0	2.0	100
1,4-DICHLOROBENZENE	ND	2.0	2.0	100
BENZENE	ND	3.9 **	4.0	98
CHLOROBENZENE	ND	1.9	2.0	95
ETHYL BENZENE	0.32	2.1	2.0	105
TOLUENE	ND	2.1	2.0	105
TOTAL XYLENES	ND	1.9	2.0	95

COMMENTS:

1. SEE COMMENTS 1, 3 AND 4 IN THE PRECISION DATA FOR THIS SAMPLE NUMBER.

2. ND = NOT DETECTED

3. MS = MATRIX SPIKE

4. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

PROJECT NAME: HANCOCK AFB

PURGEABLE HALOCARBONS AND AROMATICS VOLATILES PRECISION DATA

SAIC I.D.	87-016023	87-016026
CLIENT I.D.	GW-24	GW-24DUP
MATRIX TYPE	WATER	WATER

PURGEABLE HALOCARBONS	SAMPLE RESULT (UG/L)	DUPLICATE (UG/L)	RPD (%)
METHYLENE CHLORIDE	1.1	1.1	0

COMMENTS:

1. REPLICATE RESULTS OF THE OTHER PURGEABLE HALOCARBONS AND AROMATICS ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. RPD(RELATIVE PERCENT DIFFERENCE) $= \frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}} \times 100$

PROJECT NAME: HANCOCK AFB

PURGEABLE HALOCARBONS AND AROMATICS ACCURACY DATA

SAIC I.D.	87-016023	87-016025
CLIENT I.D.	GW-24	GW-24SP
MATRIX TYPE	WATER	WATER

PURGEABLE HALOCARBONS	SAMPLE RESULT (UG/L)	SPIKED SAMPLE (UG/L)	AMOUNT SPIKED (UG/L)	PERCENT RECOVERY (%R)
1,1,1-TRICHLOROETHANE	ND	2.0	2.0	100
1,1,2,2-TETRACHLOROETHANE	ND	3.4 **	4.0	85
1,1,2-TRICHLOROETHANE	ND	6.1 ***	6.0	102
1,1-DICHLOROETHANE	ND	1.9	2.0	95
1,1-DICHLOROETHENE	ND	2.0	2.0	100
1,2-DICHLOROBENZENE	ND	1.5	2.0	75
1,2-DICHLOROETHANE	ND	2.1	2.0	105
1,2-DICHLOROPROPANE	ND	1.9	2.0	95
1,4-DICHLOROBENZENE	ND	1.7	2.0	85
BROMODICHLOROMETHANE	ND	1.9	2.0	95
CARBON TETRACHLORIDE	ND	1.9	2.0	95
CHLOROBENZENE	ND	1.7	2.0	85
CHLORODIBROMOMETHANE	ND	6.1 ***	6.0	102
CHLOROETHANE	ND	2.3	2.0	115
CHLOROFORM	ND	2.0	2.0	100
CIS-1,3-DICHLOROPROPENE	ND	6.1 ***	6.0	102
METHYLENE CHLORIDE	1.1	2.9	2.0	95
TETRACHLOROETHENE	ND	3.4 **	4.0	85
TRANS-1,2-DICHLOROETHENE	ND	2.0	2.0	100
TRANS-1,3-DICHLOROPROPENE	ND	1.8	2.0	90
TRICHLOROETHENE	ND	1.8	2.0	90
TRICHLOROFLUOROMETHANE	ND	2.0	2.0	100
VINYL CHLORIDE	ND	1.2	2.0	60
PURGEABLE AROMATICS				
1,2-DICHLOROBENZENE	ND	1.5	2.0	75
1,4-DICHLOROBENZENE	ND	1.7	2.0	85
BENZENE	ND	3.9 **	4.0	98
CHLOROBENZENE	ND	1.8	2.0	90
ETHYL BENZENE	ND	1.7	2.0	85
TOLUENE	ND	1.9	2.0	95
TOTAL XYLENES	ND	1.7	2.0	85

COMMENTS:

1. ** = DOUBLET INDICATES THE PRESENCE OF TWO COELUTING HIT ANALYTES THAT CANNOT BE SEPARATED BY THE RECOMMENDED PRIMARY COLUMN OR SECONDARY COLUMN; REPORTED VALUE IS A FRACTION OF THE TOTAL VALUE OF THE UNRESOLVED SUBSTANCES.

2. *** = TRIPLET INDICATES THE PRESENCE OF THREE COELUTING HIT ANALYTES THAT CANNOT BE SEPARATED BY THE RECOMMENDED PRIMARY COLUMN OR SECONDARY COLUMN; REPORTED VALUE IS FRACTION OF THE TOTAL VALUE OF THE UNRESOLVED SUBSTANCES.

3. ND = NOT DETECTED

4. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE -SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

PROJECT NAME: HANCOCK AFB

PURGEABLE HALOCARBONS AND AROMATICS VOLATILES PRECISION DATA

SAIC I.D.	87-020012	87-020015
CLIENT I.D.	GW-31	GW-31DUP
MATRIX TYPE	WATER	WATER

PURGEABLE HALOCARBONS	SAMPLE RESULT (UG/L)		DUPLICATE (UG/L)		RPD (%)
1,1,2-TRICHLOROETHANE	2.7	***	2.3	***	16
BROMODICHLOROMETHANE	4.0		2.8		35
BROMOFORM	1.5		1.4		7
CHLORODIBROMOMETHANE	2.7	***	2.3	***	16
CHLOROFORM	18		17		6
CIS-1,3-DICHLOROPROPENE	2.7	***	2.3	***	16
METHYLENE CHLORIDE	0.43		0.59		31
PURGEABLE AROMATICS					
ETHYL BENZENE	0.46		0.62		30
TOLUENE	0.42		0.68		47
TOTAL XYLENES	0.47		0.47		0

COMMENTS:

1. ** = DOUBLET;THE PRESENCE OF TWO COELUTING HIT ANALYTES THAT CANNOT BE SEPARATED BY THE RECOMMENDED PRIMARY COLUMN OR SECONDARY COLUMN; REPORTED VALUE IS A FRACTION OF THE TOTAL VALUE OF THE UNRESOLVED SUBSTANCES.

2. *** = TRIPLET; THE PRESENCE OF THREE COELUTING HIT ANALYTES THAT CANNOT BE SEPARATED BY THE RECOMMENDED PRIMARY COLUMN OR SECONDARY COLUMN; REPORTED VALUE IS A FRACTION OF THE TOTAL VALUE OF THE UNRESOLVED SUBSTANCES.

3. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$ X 100

PROJECT NAME: HANCOCK AFB

PURGEABLE HALOCARBONS AND AROMATICS ACCURACY DATA

SAIC I.D.	87-020012	87-020015
CLIENT I.D.	GW-31	GW-31SP
MATRIX TYPE	WATER	WATER

PURGEABLE HALOCARBONS	SAMPLE RESULT (UG/L)	SPIKED SAMPLE (UG/L)	AMOUNT SPIKED (UG/L)	PERCENT RECOVERY (%R)
1,1,1-TRICHLOROETHANE	ND	1.4	2.0	70
1,1,2,2-TETRACHLOROETHANE	ND	1.5 **	4.0	38
1,1,2-TRICHLOROETHANE	2.7 ***	7.2 ***	6.0	75
1,1-DICHLOROETHANE	ND	1.6	2.0	80
1,1-DICHLOROETHENE	ND	1.4	2.0	70
1,2-DICHLOROBENZENE	ND	1.2	2.0	60
1,2-DICHLOROETHANE	ND	1.0	2.0	50
1,2-DICHLOROPROPANE	ND	1.2	2.0	60
1,4-DICHLOROBENZENE	ND	1.3	2.0	65
BROMOFORM	1.5	4.5	2.0	150
CARBON TETRACHLORIDE	ND	1.3	2.0	65
CHLOROBENZENE	ND	1.1	2.0	55
CHLORODIBROMOMETHANE	2.7 ***	7.2 ***	6.0	75
CHLOROETHANE	ND	1.2	2.0	60
CHLOROFORM	18	18.0	2.0	0 (3)
CIS-1,3-DICHLOROPROPENE	2.7 ***	7.2 ***	6.0	75
METHYLENE CHLORIDE	0.43	2.2	2.0	89
TETRACHLOROETHENE	ND	1.5 **	4.0	38
TRANS-1,2-DICHLOROETHENE	ND	1.2	2.0	60
TRANS-1,3-DICHLOROPROPENE	ND	1.1	2.0	55
TRICHLOROETHENE	ND	1.9	2.0	95
TRICHLOROFLUOROMETHANE	ND	1.2	2.0	60
VINYL CHLORIDE	ND	1.0	2.0	50
PURGEABLE AROMATICS				
1,2-DICHLOROBENZENE	ND	1.2	2.0	60
1,4-DICHLOROBENZENE	ND	1.3	2.0	65
BENZENE	ND	2.3 **	4.0	58
CHLOROBENZENE	ND	1.2	2.0	60
ETHYL BENZENE	0.46	1.7	2.0	54
TOLUENE	0.42	1.4	2.0	36
TOTAL XYLENES	0.47	1.6	2.0	57

COMMENTS:

1. SEE COMMENTS NO.1 AND NO.2 IN PRECISION DATA FOR THIS SAMPLE NUMBER

2. ND = NOT DETECTED

3. ZERO % RECOVERY DUE TO THE AMOUNT OF SPIKE ADDED IS MASKED BY THE BACKGROUND LEVEL OF THE TARGET ANALYTE IN THE SAMPLE.

4. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X100

PROJECT NAME: HANCOCK AFB

ORGANOPHOSPHOROUS PESTICIDES (METHOD 614)

PRECISION DATA SUMMARY

COMMENTS:

1. REPLICATE RESULTS FOR SAMPLE ES-2 FOR ORGANOPHOSPHOROUS ANALYSIS ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. RPD (RELATIVE PERCENT DIFFERENCE)= $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE X 100}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$

ORGANOPHOSPHOROUS PESTICIDES (METHOD 614)

ACCURACY DATA SUMMARY

ORGANOPHOSPOROUS PESTICIDES	SAIC ID	CLIENT ID	SAMPLE RESULT (UG/KG)	SPIKED SAMPLE (UG/KG)	AMOUNT SPIKED (UG/KG)	PERCENT RECOVERY (%)
DIAZINON	86-350062	ES-2	1200 U	24000	23300	103
MALATHION	86-350062	ES-2	1600 U	24000	23300	103
PARATHION, ETHYL	86-350062	ES-2	1200 U	23000	23300	99

COMMENTS:

1. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

PROJECT NAME: HANCOCK AFB

PETROLEUM HYDROCARBON BY IR ANALYSIS PRECISION DATA

SAIC ID	CLIENT ID	MATRIX	SAMPLE RESULT (MG/KG)	DUPLICATE (MG/KG)	RPD (%)
86-329025	FS-6-1	SOIL	470	430	9
86-350056	SD-2	SOIL	2000	1800	11

COMMENTS:

1. REPLICATE RESULTS FOR SAMPLES SD-14, GW-25, GW-26, GW-31, AND GW-32 ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION

2. RPD (RELATIVE PERCENT DIFFERENCE) $= \frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}} \times 100$

PROJECT NAME: HANCOCK AFB

PRIORITY POLLUTANT METALS ANALYSIS PRECISION DATA

PRIORITY POLLUTANT METALS	SAIC ID	CLIENT ID	SAMPLE RESULT (MG/KG)	DUPLICATE (MG/KG)	RPD (%)
ARSENIC	86-350020	SD-4	4.4	4.3	2
BERYLLIUM	86-350020	SD-4	0.20	0.17	16
CADMIUM	86-350020	SD-4	1.7	1.5	12
CHROMIUM	86-350020	SD-4	12	12	0
COPPER	86-350020	SD-4	98	96	2
LEAD	86-350020	SD-4	101	108	7
	86-353015	SD-17	26	25	4
MERCURY	86-350020	SD-4	0.033	0.035	6
NICKEL	86-350020	SD-4	12	10	18
SELENIUM	86-350020	SD-4	1.1	1.1	0
ZINC	86-350020	SD-4	89	81	9

COMMENTS:

1. REPLICATE RESULTS OF THE OTHER PRIORITY METALS FOR SAMPLES SD-4 ARE BELOW DETECTION AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. SAMPLE SD-17 WAS ANALYZED FOR TOTAL LEAD ONLY.

4. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE} \times 100}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$

PROJECT NAME: HANCOCK AFB

PRIORITY POLLUTANT METALS ACCURACY DATA

PRIOPITY POLLUTANT METALS	SAIC ID	CLIENT ID	SAMPLE RESULT (UG)	SPIKED SAMPLE (UG)	AMOUNT SPIKED (UG)	PERCENT RECOVERY (%)
ANTIMONY	86-350020	SD-4	ND	ND	200	0 (1)
ARSENIC	86-350020	SD-4	17	26	10	90
BERYLLIUM	86-350020	SD-4	0.77	5.2	5	89
CADMIUM	86-350020	SD-4	6.5	11	5	90
CHROMIUM	86-350020	SD-4	50	95	50	90
COPPER	86-350020	SD-4	391	872	500	96
LEAD	86-329025	FS-6-1	33	111	100	78
	86-350020	SD-4	417	868	500	90
	86-353015	"D-17	103	280	200	89
MERCURY	86-350020	SD-4	0.041	0.14	0.1	99
NICKEL	86-350020	SD-4	45	80	40	88
SELENIUM	86-350020	SD-4	4.3	15	10	107
SILVER	86-350020	SD-4	ND	3.0	10	30 (1)
THALLIUM	86-350020	SD-4	ND	96	100	96
ZINC	86-350020	SD-4	342	765	500	85

COMMENTS:

1. PRESENCE OF SAMPLE MATRIX INTERFERENCE THAT IS POSSIBLY DUE TO CHLORIDE.

2. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE RESULT - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

3. ND = NOT DETECTED

PROJECT NAME: HANCOCK AFB

PRIORITY POLLUTANT METALS ANALYSIS PRECISION DATA

PRIORITY POLLUTANT METALS	SAIC ID	CLIENT ID	SAMPLE RESULT	DUPLICATE	RPD
			(UG/L)	(UG/L)	(%)
CHROMIUM	87-020012	GW-31	92	78	16
LEAD	87-016023	GW-24	2.5	2.1	17

COMMENTS:

1. REPLICATE RESULTS OF THE OTHER PRIORITY METALS FOR SAMPLES SW-16 AND GW-31 ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. REPLICATE RESULTS OF SAMPLE GW-7 FOR CADMIUM, CHROMIUM AND LEAD ANALYSIS ARE ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

3. SAMPLE GW-24 WAS ANALYZED FOR TOTAL LEAD ONLY.

4. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}} \times 100$

PROJECT NAME: HANCOCK AFB

PRIORITY POLLUTANT METALS ACCURACY DATA

PRIORITY POLLUTANT METALS	SAIC ID	CLIENT ID	SAMPLE RESULT (UG)	SPIKED SAMPLE (UG)	AMOUNT SPIKED (UG)	PERCENT RECOVERY (%)
ANTIMONY	86-350040	SW-16	ND	4.9	5	98
	87-020012	GW-31	ND	29	25	116
ARSENIC	86-350040	SW-16	ND	4.6	5	92
	87-020012	GW-31	ND	4.1	5	82
BERYLLIUM	86-350040	SW-16	ND	2.3	2.5	92
	87-020012	GW-31	ND	28	28	112
CADMIUM	86-350040	SW-16	ND	2.4	2.5	96
	86-353013	GW-7	ND	2.8	2.5	112
	87-020012	GW-31	ND	27	25	108
CHROMIUM	86-350040	SW-16	ND	22	25	88
	86-353013	GW-7	ND	20	25	80
	87-020012	GW-31	4.2	31	25	107
COPPER	86-350040	SW-16	ND	11	10	110
	87-020012	GW-31	ND	28	25	112
LEAD	86-350040	SW-16	ND	47	50	94
	86-353013	GW-7	ND	42	50	84
	87-016023	GW-24	0.23	0.79	0.5	112
	87-020012	GW-31	ND	130	125	104
MERCURY	86-350040	SW-16	ND	0.1	0.1	100
	87-020012	GW-31	ND	0.01	0.01	100
NICKEL	86-350040	SW-16	ND	13	20	65
	87-020012	GW-31	ND	27	25	108
SELENIUM	86-350040	SW-16	ND	87	100	87
	87-020012	GW-31	ND	4.9	5	98
SILVER	86-350040	SW-16	ND	3.5	5	70
	87-020012	GW-31	ND	2.5	5	50
THALLIUM	86-350040	SW-16	ND	51	50	102
	87-020012	GW-31	ND	170	125	136 (1)
ZINC	86-350040	SW-16	ND	2.7	2.5	108
	87-020012	GW-31	ND	26	25	104

COMMENTS:

1. PRESENCE OF SAMPLE MATRIX INTERFERENCE THAT IS POSSIBLY DUE TO CHLORIDE.

2. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE RESULT - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

3. ND = NOT DETECTED

PROJECT NAME: HANCOCK AFB

ICP METAL SCAN ANALYSIS PRECISION DATA

PRIORITY POLLUTANT METALS	SAIC ID	CLIENT ID	SAMPLE RESULT (UG/L)	DUPLICATE (UG/L)	RPD (%)
CALCIUM	87-020012	GW-31	8430	8090	4
MAGNESIUM	87-020012	GW-31	2010	1510	28
MANGANESE	86-353013	GW-7	1500	1500	0
POTASSIUM	87-020012	GW-31	210000	210000	0
SODIUM	87-020012	GW-31	38400	37500	2
SILICA (COLORIMETRIC)	87-020012	GW-31	3790	3520	7

COMMENTS:

1. REPLICATE RESULTS FOR ALUMINUM,BARIUM,BORON,COBALT,IRON,MOLYBDENUM AND VANADIUM FOR SAMPLE GW-31 USING ICP METAL SCAN ANALYSIS ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE X 100}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$

PROJECT NAME: HANCOCK AFB

ICP METAL SCAN ACCURACY DATA

ICP METALS	SAIC ID	CLIENT ID	SAMPLE RESULT (UG)	SPIKED SAMPLE (UG)	AMOUNT SPIKED (UG)	PERCENT RECOVERY (%)
ALUMINUM	87-020012	GW-31	ND	140	125	112
BARIUM	87-020012	GW-31	ND	30	25	120
BORON	87-020012	GW-31	ND	48	50	96
CALCIUM	87-020012	GW-31	413	2800	2500	95
COBALT	87-020012	GW-31	ND	27	25	108
IRON	87-020012	GW-31	ND	28	25	112
MAGNESIUM	87-020012	GW-31	89	2600	2500	100
MANGANESE	87-020012	GW-31	ND	28	25	111
MOLYBDENUM	87-020012	GW-31	ND	26	25	104
POTASSIUM	87-020012	GW-31	11000	22000	10000	106
SODIUM	87-020012	GW-31	1900	4200	2500	90
SILICA (COLORIMETRIC)	87-020012	GW-31	180	2500	2500	92
VANADIUM	87-020012	GW-31	ND	26	25	106

COMMENTS:

1. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE RESULT - SAMPLE RESULT X 100}}{\text{AMOUNT OF SPIKE ADDED}}$

2. ND = NOT DETECTED

PROJECT NAME: HANCOCK AFB

ANION ANALYSIS BY ION CHROMATOGRAPHY PRECISION DATA

ANIONS	SAIC ID	CLIENT ID	SAMPLE RESULT (MG/L)	DUPLICATE (MG/L)	RPD (%)
CHLORIDE (CL-)	87-020012	GW-31	32	32	0
SULFATE (SO4=)	87-020012	GW-31	73	82	12

COMMENTS:

1. REPLICATE RESULTS FOR SAMPLE GW-7 FOR PHOSPHATE ANION ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION.

2. REPLICATE RESULTS OF SAMPLE GW-31 FOR PHOSPHATE, FLUORIDE, BROMIDE,NITRATE AND NITRITE ANIONS ARE BELOW DETECTION LIMITS AND ARE NOT APPLICABLE FOR RPD DETERMINATION

3. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$ X 100

PROJECT NAME: HANCOCK AFB

ANION ANALYSIS BY ION CHROMATOGRAPHY ACCURACY DATA

ANIONS	SAIC ID	CLIENT ID	SAMPLE RESULT (MG/L)	SPIKED SAMPLE (MG/L)	AMOUNT SPIKED (MG/L)	PERCENT RECOVERY (%)
PHOSPHATE (PO4=)	86-353013	GW-7	26 U	43	50	86
	87-020012	GW-31	26 U	(1)	50	(1)
CHLORIDE (CL-)	87-020012	GW-31	32	82	50	125
FLUORIDE (F-)	87-020012	GW-31	2.3 U	49	50	99
BROMIDE (BR-)	87-020012	GW-31	6.4 U	42	50	84
NITRATE (NO3-)	87-020012	GW-31	7.5 U	40	50	81
NITRITE (NO2-)	87-020012	GW-31	3.6 U	43	50	86
SULFATE (SO4=)	87-020012	GW-31	73	110	50	128

COMMENTS:

1. AMOUNT OF PHOSPHATE ANION SPIKED INTO THE SAMPLE WAS UNDETECTED DUE TO POSSIBLE MATRIX EFFECT.

2. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE RESULT - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

PROJECT NAME: HANCOCK AFB

GENERAL CHEMISTRY ANALYSIS PRECISION DATA

PARAMETERS	SAIC ID	CLIENT ID	SAMPLE RESULT (MG/L)	DUPLICATE (MG/L)	RPD (%)
TOTAL DISSOLVED SOILDS	87-020012	GW-31	740	780	5
ALKALINITY (HCO3-)	87-020012	GW-31	32	30	6
ALKALINITY (CO3=)	87-020012	GW-31	110	120	9
TOTAL ALKALINITY	87-020012	GW-31	142	150	5

COMMENTS:

1. RPD (RELATIVE PERCENT DIFFERENCE) = $\frac{\text{SAMPLE RESULT - SAMPLE DUPLICATE}}{\text{MEAN OF SAMPLE RESULT AND DUPLICATE}}$ X 100

GENERAL CHEMISTRY ANALYSIS ACCURACY DATA

PARAMETERS	SAIC ID	CLIENT ID	SAMPLE RESULT (MG)	SPIKED SAMPLE (MG)	AMOUNT SPIKED (MG CACO3)	PERCENT RECOVERY (%)
ALKALINITY (CO3=)	87-020012	GW-31	7.3	18	13	82

COMMENTS:

1. PERCENT RECOVERY = $\frac{\text{SPIKED SAMPLE RESULT - SAMPLE RESULT}}{\text{AMOUNT OF SPIKE ADDED}}$ X 100

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC LAB ID (8725)	FIELD ID	PARAMETER	DATE COLLECTED	DATE RECEIVED BY LAB	DATE OF EXTRACTION	EXTRACTION HOLDING TIME	DATE OF ANALYSIS	ANALYSIS HOLDING TIME
SHIPMENT # 7								
8,001	FSB-1	BNA	12-Sep-87	15-Sep-87	22-Sep-87	10	08-Oct-87	16
8,002	FSC-1	BNA	12-Sep-87	15-Sep-87	22-Sep-87	10	08-Oct-87	16
8,003	FSC-2	BNA	12-Sep-87	15-Sep-87	22-Sep-87	10	08-Oct-87	16
8,004	FSD-1	BNA	12-Sep-87	15-Sep-87	22-Sep-87	10	09-Oct-87	17
8,005	FSD-2	BNA	12-Sep-87	15-Sep-87	22-Sep-87	10	08-Oct-87	16
8,006	FSE-1	BNA	12-Sep-87	15-Sep-87	22-Sep-87	10	09-Oct-87	17
8,007	FSE-2	BNA	12-Sep-87	15-Sep-87	22-Sep-87	10	09-Oct-87	17
8,008	FSF-1	BNA	12-Sep-87	15-Sep-87	22-Sep-87	10	08-Oct-87	16
8,009	FSF-2	BNA	12-Sep-87	15-Sep-87	22-Sep-87	10	08-Oct-87	16
8,010	FSG-1	BNA	12-Sep-87	15-Sep-87	22-Sep-87	10	08-Oct-87	16
8,011	GW-6	Lead	14-Sep-87	15-Sep-87	NA	NA	03-Oct-87	19
8,011	GW-6	o-PO4	14-Sep-87	15-Sep-87	NA	NA	15-Sep-87	1
8,012	GW-7	Lead	14-Sep-87	15-Sep-87	NA	NA	03-Oct-87	19
8,012	GW-7	o-PO4	14-Sep-87	15-Sep-87	NA	NA	15-Sep-87	1
8,013	GW-8	Lead	14-Sep-87	15-Sep-87	NA	NA	03-Oct-87	19
8,013	GW-8	o-PO4	14-Sep-87	15-Sep-87	NA	NA	15-Sep-87	1
8,014	GW-9	Lead	14-Sep-87	15-Sep-87	NA	NA	03-Oct-87	19
8,014	GW-9	o-PO4	14-Sep-87	15-Sep-87	NA	NA	15-Sep-87	1
8,015	GW-28	Hg	14-Sep-87	15-Sep-87	NA	NA	20-Sep-87	6
8,015	GW-28	o-PO4	14-Sep-87	15-Sep-87	NA	NA	15-Sep-87	1
8,016	GW-29	Hg	14-Sep-87	15-Sep-87	NA	NA	20-Sep-87	6
8,016	GW-29	o-PO4	14-Sep-87	15-Sep-87	NA	NA	15-Sep-87	1
8,017	GW-30	Hg	14-Sep-87	15-Sep-87	NA	NA	20-Sep-87	6
8,017	GW-30	o-PO4	14-Sep-87	15-Sep-87	NA	NA	15-Sep-87	1
8,018	SW-4	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,019	SW-5	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,020	SW-6	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,021	SW-7	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,022	SW-14	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,023	SW-18	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,023	SW-18	H-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,023	SW-18	A-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,024	SW-20	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,024	SW-20	H-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,024	SW-20	A-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,025	SW-21	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,025	SW-21	H-VOA	13-Sep-87	15-Sep-87	NA	NA	19-Sep-87	6
8,025	SW-21	A-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,026	SW-23	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,026	SW-23	H-VOA	13-Sep-87	15-Sep-87	NA	NA	19-Sep-87	6
8,026	SW-23	A-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,027	SW-31	H-VOA	13-Sep-87	15-Sep-87	NA	NA	19-Sep-87	6
8,027	SW-31	A-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,028	SW-32	H-VOA	13-Sep-87	15-Sep-87	NA	NA	19-Sep-87	6
8,028	SW-32	A-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7

SCIENCE APPLICATIONS INTERNATIONA; CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC LAB ID (8725)	FIELD ID	PARAMETER	DATE COLLECTED	DATE RECEIVED BY LAB	DATE OF EXTRACTION	EXTRACTION HOLDING TIME	DATE OF ANALYSIS	ANALYSIS HOLDING TIME
SHIPMENT # 7								
8,029	SD-4	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,030	SD-5	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,031	SD-6	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,032	SD-7	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,033	SD-14	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,034	SD-18	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,035	SD-20	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,036	SD-21	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,037	SD-23	Hg	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,038	EW-1	OCP	14-Sep-87	15-Sep-87	21-Sep-87	7	02-Oct-87	11
8,038	EW-1	OPP	14-Sep-87	15-Sep-87	21-Sep-87	7	23-Oct-87	32
8,038	EW-1	CH	14-Sep-87	15-Sep-87	21-Sep-87	7	16-Oct-87	32
8,039	FIELD BLK	Hg	14-Sep-87	15-Sep-87	NA	NA	20-Sep-87	6
8,039	FIELD BLK	Lead	14-Sep-87	15-Sep-87	NA	NA	03-Oct-87	6
SHIPMENT #8								
9,001	GW-1	o-PO4	15-Sep-87	16-Sep-87	NA	NA	16-Sep-87	1
9,001	GW-1	Lead	15-Sep-87	16-Sep-87	NA	NA	03-Oct-87	18
9,002	GW-2	o-PO4	15-Sep-87	16-Sep-87	NA	NA	16-Sep-87	1
9,002	GW-2	Lead	15-Sep-87	16-Sep-87	NA	NA	03-Oct-87	18
9,003	GW-3	o-PO4	15-Sep-87	16-Sep-87	NA	NA	16-Sep-87	1
9,003	GW-3	Lead	15-Sep-87	16-Sep-87	NA	NA	03-Oct-87	18
9,004	GW-4	o-PO4	15-Sep-87	16-Sep-87	NA	NA	16-Sep-87	1
9,004	GW-4	Lead	15-Sep-87	16-Sep-87	NA	NA	03-Oct-87	18
9,005	GW-5	o-PO4	15-Sep-87	16-Sep-87	NA	NA	16-Sep-87	1
9,005	GW-5	Lead	15-Sep-87	16-Sep-87	NA	NA	03-Oct-87	18
9,006	GW-10	o-PO4	15-Sep-87	16-Sep-87	NA	NA	16-Sep-87	1
9,006	GW-10	Lead	15-Sep-87	16-Sep-87	NA	NA	03-Oct-87	18
9,007	GW-25	o-PO4	15-Sep-87	16-Sep-87	NA	NA	16-Sep-87	1
9,007	GW-25	Hg	15-Sep-87	16-Sep-87	NA	NA	20-Sep-87	5
9,008	GW-26	o-PO4	15-Sep-87	16-Sep-87	NA	NA	16-Sep-87	1
9,008	GW-26	Hg	15-Sep-87	16-Sep-87	NA	NA	20-Sep-87	5
9,009	GW-31	o-PO4	15-Sep-87	16-Sep-87	NA	NA	16-Sep-87	1
9,009	GW-31	Hg	15-Sep-87	16-Sep-87	NA	NA	20-Sep-87	5
9,010	GW-32	o-PO4	15-Sep-87	16-Sep-87	NA	NA	16-Sep-87	1
9,010	GW-32	Hg	15-Sep-87	16-Sep-87	NA	NA	20-Sep-87	5
CONFIRMATION ANALYSIS								
8,023	SW-18	H-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,024	SW-20	H-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,025	SW-21	H-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,026	SW-23	H-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,027	SW-31	H-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,028	SW-32	H-VOA	13-Sep-87	15-Sep-87	NA	NA	20-Sep-87	7
8,038	EW-1	OPP	14-Sep-87	15-Sep-87	21-Sep-87	7	24-Oct-87	33

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #7

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	Method Blank				87258023				87258024				87258025			
FIELD IDENTIFICATION	NA				SW-18				SW-20				SW-21			
MATRIX	AQUEOUS				AQUEOUS				AQUEOUS				AQUEOUS			
PURGEABLE HALOCARBONS (E601)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Chloromethane	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
Bromomethane	1.18	u	ug/l	1.18	1.18	u	ug/l	1.18	1.18	u	ug/l	1.18	1.18	u	ug/l	1.18
Vinyl chloride	0.18	u	ug/l	0.18	0.18	u	ug/l	0.18	0.18	u	ug/l	0.18	0.18	u	ug/l	0.18
Dichlorodifluoromethane	1.81	u	ug/l	1.81	1.81	u	ug/l	1.81	1.81	u	ug/l	1.81	1.81	u	ug/l	1.81
Chloroethane	0.52	u	ug/l	0.52	0.52	u	ug/l	0.52	0.52	u	ug/l	0.52	0.52	u	ug/l	0.52
Methylene chloride	0.25		ug/l	0.25	0.25	u	ug/l	0.25	0.92	C	ug/l	0.25	0.97	C	ug/l	0.25
Trichlorofluoromethane	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25	0.35	C	ug/l	0.25
1,1-Dichloroethene	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13
1,1-Dichloroethane	0.07	u	ug/l	0.07	0.07	u	ug/l	0.07	0.07	u	ug/l	0.07	0.07	NC	ug/l	0.07
trans-1,2-Dichloroethene	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
Chloroform	0.06		ug/l	0.05	0.05	u	ug/l	0.05	0.05	u	ug/l	0.05	0.05	u	ug/l	0.05
1,2-Dichloroethane	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
1,1,1-Trichloroethane	0.03		ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.42	CI	ug/l	0.03
Carbon Tetrachloride	0.32		ug/l	0.12	0.12	u	ug/l	0.12	1.1	C	ug/l	0.12	2.2	C	ug/l	0.12
Bromodichloromethane	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
1,2-Dichloropropane	0.04	u	ug/l	0.04	0.04	u	ug/l	0.04	0.04	u	ug/l	0.04	0.04	u	ug/l	0.04
trans-1,3-Dichloropropene	0.34	u	ug/l	0.34	0.34	u	ug/l	0.34	0.34	u	ug/l	0.34	0.34	u	ug/l	0.34
Trichloroethene	0.59		ug/l	0.12	0.12	u	ug/l	0.12	2.7	C	ug/l	0.12	4.6	CI	ug/l	0.12
Dibromochloromethane	0.09	u	ug/l	0.09	0.09	u	ug/l	0.09	0.09	u	ug/l	0.09	0.09	u	ug/l	0.09
1,1,2-Trchloroethane	0.02	u	ug/l	0.02	0.02	u	ug/l	0.02	0.02	u	ug/l	0.02	0.02	u	ug/l	0.02
cis-1,3-Dichloropropene	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20
2-Chloroethylvinyl ether	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13
Bromoform	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20
1,1,2,2-Tetrachloroethane	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
Tetrachloroethene	0.03 d		ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
Chlorobenzene	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25	0.32	C	ug/l	0.25	0.83	C	ug/l	0.25
1,3-Dichlorobenzene	0.32	u	ug/l	0.32	0.32	u	ug/l	0.32	0.32	u	ug/l	0.32	0.32	u	ug/l	0.32
1,2-Dichlorobenzene	0.15	u	ug/l	0.15	0.15	u	ug/l	0.15	0.15	u	ug/l	0.15	0.15	u	ug/l	0.15
1,4-Dichlorobenzene	0.24	u	ug/l	0.24	0.24	u	ug/l	0.24	0.24	u	ug/l	0.24	0.24	u	ug/l	0.24
AROMATIC VOLATILE ORGANICS (SW8020)																
Benzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Toluene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Ethyl benzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Chlorobenzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.8	C	ug/l	0.2
Xylenes, Total	0.6	u	ug/l	0.6	0.6	u	ug/l	0.6	0.6	u	ug/l	0.6	0.6	u	ug/l	0.6
1,3-Dichlorobenzene	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4
1,2-Dichlorobenzene	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4
1,4-Dichlorobenzene	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3
TRACE METAL ANALYSIS (E245.1)																
Mercury (Cold Vapor)	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2

All volatile, halogenated compounds are quantitated using their response on the Hall detector.

Shipment #7

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	87258026 SW-23 AQUEOUS				87258027 SW-31 AQUEOUS				DUP-1 SW-31 AQUEOUS				87258028 SW-32 AQUEOUS			
PURGEABLE HALOCARBONS (E601)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Chloromethane	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
Bromomethane	1.18	u	ug/l	1.18	1.18	u	ug/l	1.18	1.18	u	ug/l	1.18	1.18	u	ug/l	1.18
Vinyl chloride	0.18	u	ug/l	0.18	0.18	u	ug/l	0.18	0.18	u	ug/l	0.18	0.18	u	ug/l	0.18
Dichlorodifluoromethane	1.81	u	ug/l	1.81	1.81	u	ug/l	1.81	1.81	u	ug/l	1.81	1.81	u	ug/l	1.81
Chloroethane	0.52	u	ug/l	0.52	0.52	u	ug/l	0.52	0.52	u	ug/l	0.52	0.52	u	ug/l	0.52
Methylene chloride	1.0	C	ug/l	0.25	0.25	NC	ug/l	0.25	0.75		ug/l	0.25	0.25	NC	ug/l	0.25
Trichlorofluoromethane	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25
1,1-Dichloroethene	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13
1,1-Dichloroethane	0.07	u	ug/l	0.07	0.07	u	ug/l	0.07	0.07	u	ug/l	0.07	0.07	u	ug/l	0.07
trans-1,2-Dichloroethene	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
Chloroform	0.79	C	ug/l	0.05	0.62	C	ug/l	0.05	0.79		ug/l	0.05	0.66	C	ug/l	0.05
1,2-Dichloroethane	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
1,1,1-Trichloroethane	0.03	CI	ug/l	0.03	0.03	CI	ug/l	0.03	0.03	u	ug/l	0.03	0.05	CI	ug/l	0.03
Carbon Tetrachloride	1.3	C	ug/l	0.12	0.47	C	ug/l	0.12	0.53		ug/l	0.12	0.28	C	ug/l	0.12
Bromodichloromethane	0.10	C	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
1,2-Dichloropropane	0.04	u	ug/l	0.04	0.04	u	ug/l	0.04	0.04	u	ug/l	0.04	0.04	u	ug/l	0.04
trans-1,3-Dichloropropene	0.34	u	ug/l	0.34	0.34	u	ug/l	0.34	0.34	u	ug/l	0.34	0.34	u	ug/l	0.34
Trichloroethene	3.1	CI	ug/l	0.12	1.4	CI	ug/l	0.12	1.4		ug/l	0.12	0.67	CI	ug/l	0.12
Dibromochloromethane	0.09	u	ug/l	0.09	0.09	u	ug/l	0.09	0.09	u	ug/l	0.09	0.09	u	ug/l	0.09
1,1,2-Trchloroethane	0.02	u	ug/l	0.02	0.02	u	ug/l	0.02	0.02	u	ug/l	0.02	0.02	u	ug/l	0.02
cis-1,3-Dichloropropene	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20
2-Chloroethylvinyl ether	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13
Bromoform	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20
1,1,2,2-Tetrachloroethane	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
Tetrachloroethene	0.03	u	ug/l	0.03	0.03	NC	ug/l	0.03	0.20	d	ug/l	0.03	0.16	d CI	ug/l	0.03
Chlorobenzene	0.25	NC	ug/l	0.25	0.25	u	ug/l	0.25	0.25		ug/l	0.25	0.25	u	ug/l	0.25
1,3-Dichlorobenzene	0.32	u	ug/l	0.32	0.32	u	ug/l	0.32	0.32	u	ug/l	0.32	0.32	u	ug/l	0.32
1,2-Dichlorobenzene	0.15	u	ug/l	0.15	0.15	u	ug/l	0.15	0.15	u	ug/l	0.15	0.15	u	ug/l	0.15
1,4-Dichlorobenzene	0.24	u	ug/l	0.24	0.24	u	ug/l	0.24	0.24	u	ug/l	0.24	0.24	u	ug/l	0.24
AROMATIC VOLATILE ORGANICS (SW8020)																
Benzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Toluene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Ethyl benzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Chlorobenzene	0.3	NC	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Xylenes, Total	0.6	u	ug/l	0.6	0.6	u	ug/l	0.6	0.6	u	ug/l	0.6	0.6	u	ug/l	0.6
1,3-Dichlorobenzene	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4
1,2-Dichlorobenzene	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	C.4	u	ug/l	0.4	0.4	u	ug/l	0.4
1,4-Dichlorobenzene	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3
TRACE METAL ANALYSIS (E245.1)																
Mercury (Cold Vapor)	0.2	u	ug/l	0.2												

All volatile, halogenated compounds are quantitated using their response on the Hall detector.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	Method Blank				87258001				87258002				87258003			
FIELD IDENTIFICATION	NA				FSB-1				FSC-1				FSC-2			
MATRIX	AQUEOUS				SOIL				SOIL				SOIL			
BASE-NEUTRALS/ACID EXTRACTABLES (SW8270)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Phenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
bis(2-Chloroethyl)ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Chlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
1,3-Dichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
1,4-Dichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzyl alcohol	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
1,2-Dichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Methylphenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
bis(2-Chloroisopropyl)ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Methylphenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
N-Nitroso-Di-N-propylamine	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Hexachloroethane	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Nitrobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Isophorone	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Nitrophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4-Dimethylphenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzoic acid	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
bis(2-Chloroethoxy)methane	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
2,4-Dichlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
1,2,4-Trichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Naphthalene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Chloroaniline	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
Hexachlorobutadiene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Chloro-3-methylphenol	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
2-Methylnaphthalene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Hexachlorocyclopentadiene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4,6-Trichlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4,5-Trichlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Chloronaphthalene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Nitroaniline	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Dimethyl phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Acenaphthylene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
3-Nitroaniline	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Acenaphthene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4-Dinitrophenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
4-Nitrophenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Dibenzofuran	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4-Dinitrotoluene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,6-Dinitrotoluene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Diethylphthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Chlorophenyl phenyl ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Fluorene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330

Shipment #7

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	Method Blank				87258001				87258002				87258003			
FIELD IDENTIFICATION	NA				FSB-1				FSC-1				FSC-2			
MATRIX	AQUEOUS				SOIL				SOIL				SOIL			
BASE-NEUTRALS/ACID EXTRACTABLES (SW8270)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
4-Nitroaniline	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
4,6-Dinitro-2-methylphenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
N-Nitrosodiphenylamine	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Bromophenyl phenyl ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Hexachlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Pentachlorophenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Phenanthrene	330	u	ug/kg	330	1,100		ug/kg	330	2,900		ug/kg	330	1,200		ug/kg	330
Anthracene	330	u	ug/kg	330	330	u	ug/kg	330	1,100		ug/kg	330	330	u	ug/kg	330
Di-n-butylphthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Fluoranthene	330	u	ug/kg	330	1,400		ug/kg	330	3,200		ug/kg	330	2,100		ug/kg	330
Pyrene	330	u	ug/kg	330	1,700		ug/kg	330	2,900		ug/kg	330	2,400		ug/kg	330
Butyl benzyl phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
3,3'-Dichlorobenzidine	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
Benzo(a)anthracene	330	u	ug/kg	330	660		ug/kg	330	1,300		ug/kg	330	880		ug/kg	330
bis(2-Ethylhexyl)phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	2,300		ug/kg	330
Chrysene	330	u	ug/kg	330	640		ug/kg	330	1,200		ug/kg	330	840		ug/kg	330
Di-n-octyl phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzo(b)fluoranthene	330	u	ug/kg	330	450		ug/kg	330	600		ug/kg	330	740		ug/kg	330
Benzo(k)fluoranthene	330	u	ug/kg	330	400		ug/kg	330	590		ug/kg	330	700		ug/kg	330
Benzo(a)pyrene	330	u	ug/kg	330	330	u	ug/kg	330	800		ug/kg	330	680		ug/kg	330
Indeno(1,2,3-c,d)pyrene	330	u	ug/kg	330	330	u	ug/kg	330	450		ug/kg	330	330	u	ug/kg	330
Dibenz(a,h)anthracene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzo(g,h,i)perylene	330	u	ug/kg	330	330	u	ug/kg	330	350		ug/kg	330	330	u	ug/kg	330

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #7

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87258004				87258005				87258006				8725007			
FIELD IDENTIFICATION	FSD-1				FSD-2				FSE-1				FSE-2			
MATRIX	SOIL				SOIL				SOIL				SOIL			
BASE-NEUTRALS/ACID EXTRACTABLES (SW8270)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Phenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
bis(2-Chloroethyl)ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Chlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
1,3-Dichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
1,4-Dichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzyl alcohol	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
1,2-Dichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Methylphenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
bis(2-Chloroisopropyl)ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Methylphenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
N-Nitroso-Di-N-propylamine	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Hexachloroethane	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Nitrobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Isophorone	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Nitrophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4-Dimethylphenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzoic acid	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
bis(2-Chloroethoxy)methane	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
2,4-Dichlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
1,2,4-Trichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Naphthalene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Chloroaniline	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
Hexachlorobutadiene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Chloro-3-methylphenol	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
2-Methylnaphthalene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Hexachlorocyclopentadiene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4,6-Trichlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4,5-Trichlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Chloronaphthalene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Nitroaniline	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Dimethyl phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Acenaphthylene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
3-Nitroaniline	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Acenaphthene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4-Dinitrophenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
4-Nitrophenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Dibenzofuran	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4-Dinitrotoluene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,6-Dinitrotoluene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Diethylphthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Chlorophenyl phenyl ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Fluorene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #7

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87258004				87258005				87258006				8725007			
FIELD IDENTIFICATION	FSD-1				FSD-2				FSE-1				FSE-2			
MATRIX	SOIL				SOIL				SOIL				SOIL			
BASE-NEUTRALS/ACID EXTRACTABLES (SW8270)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
4-Nitroaniline	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
4,6-Dinitro-2-methylphenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
N-Nitrosodiphenylamine	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Bromophenyl phenyl ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	?30	330	u	ug/kg	330
Hexachlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	.30	330	u	ug/kg	330
Pentachlorophenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Phenanthrene	1,000		ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Anthracene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Di-n-butylphthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Fluoranthene	2,100		ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Pyrene	4,500		ug/kg	330	330	u	ug/kg	330	1,200		ug/kg	330	330	u	ug/kg	330
Butyl benzyl phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
3,3'-Dichlorobenzidine	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
Benzo(a)anthracene	1,800		ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
bis(2-Ethylhexyl)phthalate	560		ug/kg	330	330	u	ug/kg	330	3,000		ug/kg	330	630		ug/kg	330
Chrysene	1,600		ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Di-n-octyl phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzo(b)fluoranthene	2,200		ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzo(k)fluoranthene	2,200		ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzo(a)pyrene	2,400		ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Indeno(1,2,3-c,d)pyrene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Dibenz(a,h)anthracene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzo(g,h,i)perylene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #7

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87258008				87258009				87258010			
FIELD IDENTIFICATION	FSF-1				FSF-2				FSG-1			
MATRIX	SOIL				SOIL				SOIL			
BASE-NEUTRALS/ACID EXTRACTABLES (SW8270)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Phenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
bis(2-Chloroethyl)ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Chlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
1,3-Dichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
1,4-Dichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzyl alcohol	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
1,2-Dichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Methylphenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
bis(2-Chloroisopropyl)ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Methylphenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
N-Nitroso-Di-N-propylamine	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Hexachloroethane	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Nitrobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Isophorone	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Nitrophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4-Dimethylphenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzoic acid	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
bis(2-Chloroethoxy)methane	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
2,4-Dichlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
1,2,4-Trichlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Naphthalene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Chloroaniline	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
Hexachlorobutadiene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Chloro-3-methylphenol	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
2-Methylnaphthalene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Hexachlorocyclopentadiene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4,6-Trichlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4,5-Trichlorophenol	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Chloronaphthalene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2-Nitroaniline	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Dimethyl phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Acenaphthylene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
3-Nitroaniline	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Acenaphthene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4-Dinitrophenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
4-Nitrophenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Dibenzofuran	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,4-Dinitrotoluene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
2,6-Dinitrotoluene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Diethylphthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Chlorophenyl phenyl ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Fluorene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #7

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87258008				87258009				87258010			
FIELD IDENTIFICATION	FSF-1				FSF-2				FSG-1			
MATRIX	SOIL				SOIL				SOIL			
BASE-NEUTRALS/ACID EXTRACTABLES (SW8270)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
4-Nitroaniline	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
4,6-Dinitro-2-methylphenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
N-Nitrosodiphenylamine	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
4-Bromophenyl phenyl ether	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Hexachlorobenzene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Pentachlorophenol	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650	1,650	u	ug/kg	1,650
Phenanthrene	330	u	ug/kg	330	330	u	ug/kg	330	790		ug/kg	330
Anthracene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Di-n-butylphthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Fluoranthene	330	u	ug/kg	330	330	u	ug/kg	330	1,400		ug/kg	330
Pyrene	330	u	ug/kg	330	330	u	ug/kg	330	1,300		ug/kg	330
Butyl benzyl phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
3,3'-Dichlorobenzidine	650	u	ug/kg	650	650	u	ug/kg	650	650	u	ug/kg	650
Benzo(a)anthracene	330	u	ug/kg	330	330	u	ug/kg	330	610		ug/kg	330
bis(2-Ethylhexyl)phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Chrysene	330	u	ug/kg	330	330	u	ug/kg	330	670		ug/kg	330
Di-n-octyl phthalate	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzo(b)fluoranthene	330	u	ug/kg	330	330	u	ug/kg	330	460		ug/kg	330
Benzo(k)fluoranthene	330	u	ug/kg	330	330	u	ug/kg	330	400		ug/kg	330
Benzo(a)pyrene	330	u	ug/kg	330	330	u	ug/kg	330	500		ug/kg	330
Indeno(1,2,3-c,d)pyrene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Dibenz(a,h)anthracene	330	u	ug/kg	330	330	u	ug/kg	330	330	u	ug/kg	330
Benzo(g,h,i)perylene	330	u	ug/kg	330	330.	u	ug/kg	330	330	u	ug/kg	330

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #7

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION FIELD IDENTIFICATION MATRIX	87258038 EW-1 AQUEOUS				Method Blank NA AQUEOUS			
ORGANOCHLORINE PESTICIDES/PCBS (E608)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
a-BHC	0.11	u	ug/l	0.11	0.011	u	ug/l	0.011
y-BHC	0.31	u	ug/l	0.31	0.032	u	ug/l	0.032
B-BHC	0.12	u	ug/l	0.12	0.013	u	ug/l	0.013
Heptachlor	0.15	u	ug/l	0.15	0.016	u	ug/l	0.016
d-BHC	0.16	u	ug/l	0.16	0.017	u	ug/l	0.017
Aldrin	0.17	u	ug/l	0.17	0.018	u	ug/l	0.018
Heptachlor epoxide	0.19	u	ug/l	0.19	0.020	u	ug/l	0.020
Endosulfan I	0.26	u	ug/l	0.26	0.027	u	ug/l	0.027
4,4'-DDE	0.22	u	ug/l	0.22	0.023	u	ug/l	0.023
Dieldrin	0.22	u	ug/l	0.22	0.023	u	ug/l	0.023
Endrin	0.29	u	ug/l	0.29	0.030	u	ug/l	0.030
4,4'-DDD	0.32	u	ug/l	0.32	0.033	u	ug/l	0.033
Endosulfan II	0.23	u	ug/l	0.23	0.024	u	ug/l	0.024
4,4'-DDT	0.23	u	ug/l	0.23	0.024	u	ug/l	0.024
Endrin aldehyde	0.35	u	ug/l	0.35	0.037	u	ug/l	0.037
Endosulfan sulfate	0.25	u	ug/l	0.25	0.026	u	ug/l	0.026
Chlordane	3.4	u	ug/l	3.4	0.35	u	ug/l	0.35
Toxaphene	19	u	ug/l	19	2.0	u	ug/l	2.0
PCB-1016	8.5	u	ug/l	8.5	0.89	u	ug/l	0.89
PCB-1221	26	u	ug/l	26	2.7	u	ug/l	2.7
PCB-1232	16	u	ug/l	16	1.7	u	ug/l	1.7
PCB-1242	10	u	ug/l	10	1.0	u	ug/l	1.0
PCB-1248	8.1	u	ug/l	8.1	0.85	u	ug/l	0.85
PCB-1254	5.2	u	ug/l	5.2	0.54	u	ug/l	0.54
PCB-1260	4.4	u	ug/l	4.4	0.46	u	ug/l	0.46
ORGANOPHOSPHORUS PESTICIDES (E614)								
Azinphos, methyl	40	u	ug/l	40	40	u	ug/l	40
Demeton-S	3.0	u	ug/l	3.0	3.0	u	ug/l	3.0
Diazinon	2.0	u	ug/l	2.0	2.0	u	ug/l	2.0
Disulfoton	2.3	u	ug/l	2.3	2.3	u	ug/l	2.3
Ethion	2.3	u	ug/l	2.3	2.3	u	ug/l	2.3
Malathion	48	C	ug/l	3.3	3.3	u	ug/l	3.3
Parathion, ethyl	2.3	u	ug/l	2.3	2.3	u	ug/l	2.3
Parathion, methyl	2.3	u	ug/l	2.3	2.3	u	ug/l	2.3
CHLORINATED HERBICIDES (E615)								
2,4,5-T	6.5	u	ug/l	6.5	0.65	u	ug/l	0.65
2,4,5-TP (Silvex)	3.7	u	ug/l	3.7	0.37	u	ug/l	0.37
2,4-D	30	u	ug/l	30	3.0	u	ug/l	3.0
2,4-DB	22	u	ug/l	22	2.2	u	ug/l	2.2
Dalapon	13	u	ug/l	13	1.3	u	ug/l	1.3
Dicambia	24	u	ug/l	24	2.4	u	ug/l	2.4
Dichlorprop	5.6	u	ug/l	5.6	0.56	u	ug/l	0.56
Dinoseb	10	u	ug/l	10	1.0	u	ug/l	1.0
MCPA	1,400	u	ug/l	1,400	140	u	ug/l	140
MCPP	390	u	ug/l	390	39	u	ug/l	39

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #7

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87258015				87258016				87258017				87258018			
FIELD IDENTIFICATION	GW-28				GW-29				GW-30				SW-4			
MATRIX	AQUEOUS				AQUEOUS				AQUEOUS				AQUEOUS			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Mercury (Cold Vapor)	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Orthophosphate (A429)	53	u	mg/l	53	53	u	mg/l	53	53	u	mg/l	53				

SAIC SAMPLE IDENTIFICATION	87258019				87258020				87258021				87258022			
FIELD IDENTIFICATION	SW-5				SW-6				SW-7				SW-14			
MATRIX	AQUEOUS				AQUEOUS				AQUEOUS				AQUEOUS			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Mercury (Cold Vapor)	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2

SAIC SAMPLE IDENTIFICATION	87258029				87258030				87258031				87258032			
FIELD IDENTIFICATION	SD-4				SD-5				SD-6				SD-7			
MATRIX	SOIL				SOIL				SOIL				SOIL			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Mercury (Cold Vapor)	110		ug/kg	20	100		ug/kg	20	20		ug/kg	20	40		ug/kg	20

SAIC SAMPLE IDENTIFICATION	87258033				87258034				87258035				87258036			
FIELD IDENTIFICATION	SD-14				SD-18				SD-20				SD-21			
MATRIX	SOIL				SOIL				SOIL				SOIL			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Mercury (Cold Vapor)	22		ug/kg	20	30		ug/kg	20	42		ug/kg	20	90		ug/kg	20

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #7

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87258037				87258039				87258011				87258012			
FIELD IDENTIFICATION	SD-23				Field Blank				GW-6				GW-7			
MATRIX	SOIL				AQUEOUS				AQUEOUS				AQUEOUS			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Mercury (Cold Vapor)	0.2	u	ug/kg	0.2	0.2	u	ug/l	0.2								
Lead					42	u	ug/l	42	42	u	ug/l	42	42	u	ug/l	42
Orthophosphate (A429)									5.3	u	mg/l	5.3	53	u	mg/l	53

SAIC SAMPLE IDENTIFICATION	87258013				87258014			
FIELD IDENTIFICATION	GW-8				GW-9			
MATRIX	AQUEOUS				AQUEOUS			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Lead	42	u	ug/l	42	42	u	ug/l	42
Orthophosphate (A429)	5.3	u	mg/l	5.3	5.3	u	mg/l	5.3

SAIC SAMPLE IDENTIFICATION	87258029				87258030				87258031				87258032			
FIELD IDENTIFICATION	SD-4				SD-5				SD-6				SD-7			
MATRIX	SOIL				SOIL				SOIL				SOIL			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Mercury (Cold Vapor)	110		ug/kg	20	100		ug/kg	20	20		ug/kg	20	40		ug/kg	20

SAIC SAMPLE IDENTIFICATION	87258033				87258034				87258035				87258036			
FIELD IDENTIFICATION	SD-14				SD-18				SD-20				SD-21			
MATRIX	SOIL				SOIL				SOIL				SOIL			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Mercury (Cold Vapor)	22		ug/kg	20	30		ug/kg	20	42		ug/kg	20	90		ug/kg	20

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	87259001 GW-1 AQUEOUS				87259002 GW-2 AQUEOUS				87259003 GW-3 AQUEOUS				87259004 GW-4 AQUEOUS			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Lead	42	u	ug/l	42	42	u	ug/l	42	42	u	ug/l	42	42	u	ug/l	42
Orthophosphate (A429)	5.3	u	mg/l	5.3	5.3	u	mg/l	5.3	11	u	mg/l	11	11	u	mg/l	11

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	87259005 GW-5 AQUEOUS				87259006 GW-10 AQUEOUS				87259007 GW-25 AQUEOUS				87259008 GW-26 AQUEOUS			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Lead	42	u	ug/l	42	42	u	ug/l	42								
Orthophosphate (A429)	11	u	mg/l	11	11	u	mg/l	11	11	u	mg/l	11	53	u	mg/l	53
Mercury (Cold Vapor)									0.2	u	ug/l	0.2	0.2	u	ug/l	0.2

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	87259009 GW-31 AQUEOUS				87259010 GW-32 AQUEOUS				Method Blank NA AQUEOUS			
MISCELLANEOUS INORGANICS	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Mercury (Cold Vapor)	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Orthophosphate (A429)	11	u	mg/l	11	11	u	mg/l	11	1	u	mg/l	1

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION FIELD IDENTIFICATION MATRIX	87258024 SW-20 CONFIRMATION ANALYSIS		87258025 SW-21 CONFIRMATION ANALYSIS		87258026 SW-23 CONFIRMATION ANALYSIS		87258027 SW-31 CONFIRMATION ANALYSIS	
PURGEABLE HALOCARBONS (E601)	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS
Chloromethane								
Bromomethane								
Vinyl chloride								
Dichlorodifluoromethane								
Chloroethane								
Methylene chloride	0.92	0.42 C	0.97	0.57 C	1.0	0.70 C	0.73	NC
Trichlorofluoromethane			0.35	2.6 C				
1,1-Dichloroethene								
1,1-Dichloroethane			0.08	NC				
trans-1,2-Dichloroethene								
Chloroform	0.05	0.05 C			0.79	0.65 C	0.62	0.38 C
1,2-Dichloroethane								
1,1,1-Trichloroethane	0.03	1.6 CI	0.42	1.7 CI	0.03	1.5 CI	0.03	3.5 CI
Carbon Tetrachloride	1.1	0.30 C	2.2	0.29 C	1.3	0.33 C	0.47	0.68 C
Bromodichloromethane					0.10	0.45 C		
1,2-Dichloropropane								
trans-1,3-Dichloropropene								
Trichloroethene	2.7	1.6 CI	4.6	1.7 CI	3.1	1.5 CI	1.4	3.5 CI
Dibromochloromethane								
1,1,2-Trchloroethane								
cis-1,3-Dichloropropene								
2-Chloroethylvinyl ether								
Bromoform								
1,1,2,2-Tetrachloroethane								
Tetrachloroethene							0.16	NC
Chlorobenzene	0.32	2.4 C	0.83	0.25 C	0.48	NC		
1,3-Dichlorobenzene								
1,2-Dichlorobenzene								
1,4-Dichlorobenzene								

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87258028	
FIELD IDENTIFICATION	SW-32	
MATRIX	CONFIRMATION ANALYSIS	
PURGEABLE HALOCARBONS (E601)	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS
Chloromethane		
Bromomethane		
Vinyl chloride		
Dichlorodifluoromethane		
Chloroethane		
Methylene chloride	0.98	NC
Trichlorofluoromethane		
1,1-Dichloroethene		
1,1-Dichloroethane		
trans-1,2-Dichloroethene	0.10	NC
Chloroform	0.66	0.40 C
1,2-Dichloroethane		
1,1,1-Trichloroethane	0.05	1.6 CI
Carbon Tetrachloride	0.28	0.21 C
Bromodichloromethane		
1,2-Dichloropropane		
trans-1,3-Dichloropropene		
Trichloroethene	0.67	1.6 CI
Dibromochloromethane		
1,1,2-Trchloroethane		
cis-1,3-Dichloropropene		
2-Chloroethylvinyl ether		
Bromoform		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene	0.16	0.21 C
Chlorobenzene		
1,3-Dichlorobenzene		
1,2-Dichlorobenzene		
1,4-Dichlorobenzene		

SAIC SAMPLE IDENTIFICATION	87258038	
FIELD IDENTIFICATION	EW-1	
MATRIX	CONFIRMATION ANALYSIS	
ORGANOPHOSPHORUS PESTICIDES (E614)	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS
Azinphos, methyl		
Demeton-S		
Diazinon		
Disulfoton		
Ethion		
Malathion	48	15 C
Parathion, ethyl		
Parathion, methyl		

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

NOTES AND COMMENTS:

u = Not detected at the limits given.

d = 1,1,2,2-Tetrachloroethane and Tetrachloroethene coelute, the peak is quantitated as all Tetrachloroethene.

C = Compound found on both the primary and secondary column above the indicated detection limit.

CI = Compound found on both the primary and secondary column, however there is potential interference from another compound on the secondary column prevents accurate quantitation of the peak of interest.

NC = Compound found on the primary column but not on the secondary column at or above the detection limit indicated.

All volatile, halogenated compounds included in the 602 analysis and in the 601 analysis were quantitated based on their 601 response.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

QUALITY CONTROL REPORT

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	DUPLICATE ANALYSIS SW-31 AQUEOUS			MATRIX SPIKE ANALYSIS SW-32 AQUEOUS				
PURGEABLE HALOCARBONS (E601)	ALIQUOT #1	ALIQUOT #2	%RPD	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	CONTROL LIMITS
Chloromethane								
Bromomethane								
Vinyl chloride				1.50	2.20	0.66	107%	60-110
Dichlorodifluoromethane				1.50	2.20	0.66	107%	60-110
Chloroethane				0.52	0.37	0.66	-23%	70-115
Methylene chloride	0.73	0.75	-2.4%	0.16	1.01	0.66	129%	85-145
Trichlorofluoromethane	0.11	0.22	-66.3%	0.22	0.86	0.66	97%	71-120
1,1-Dichloroethene				0.00	0.58	0.66	88%	61-145
1,1-Dichloroethane				0.00	0.64	0.66	97%	85-115
trans-1,2-Dichloroethene				0.00	0.76	0.66	115%	85-115
Chloroform	0.62	0.79	-24.2%	0.62	1.68	0.66	161%	85-115
1,2-Dichloroethane				0.00	0.66	0.66	100%	85-115
1,1,1-Trichloroethane				0.00	0.64	0.66	97%	85-115
Carbon Tetrachloride	0.47	0.53	-12.5%	0.28	1.00	0.66	110%	85-115
Bromodichloromethane	0.05	0.04	25.3%	0.04	1.02	0.66	148%	85-115
1,2-Dichloropropane				0.00	0.57	0.66	86%	71-120
trans-1,3-Dichloropropene				0.00	0.46	0.66	70%	71-120
Trichloroethene	1.4	1.4	-1.3%	0.67	1.35	0.66	103%	71-120
Dibromochloromethane				0.00	0.45	0.66	68%	65-105
1,1,2-Trchloroethane				0.00	0.45	0.66	68%	65-105
cis-1,3-Dichloropropene				0.00	0.45	0.66	68%	65-105
2-Chloroethylvinyl ether								
Bromoform								
1,1,2,2-Tetrachloroethane				0.08	0.82	0.66	112%	80-125
Tetrachloroethene	0.16	0.20	-26.7%	0.08	0.82	0.66	112%	80-125
Chlorobenzene	0.22	0.25	-12.9%	0.09	0.49	0.66	61%	75-125
1,3-Dichlorobenzene				0.00	0.45	0.66	68%	73-135
1,2-Dichlorobenzene				0.00	0.52	0.66	79%	63-141
1,4-Dichlorobenzene				0.00	0.57	0.66	86%	76-142
AROMATIC VOLATILE ORGANICS (SW8020)								
Benzene				0.00	0.65	0.66	98%	90-110
Toluene				0.00	0.64	0.66	97%	85-115
Ethyl benzene				0.00	0.61	0.66	92%	85-115
Chlorobenzene								
Xylenes, Total								
1,3-Dichlorobenzene				0.00	0.49	0.66	74%	73-135
1,2-Dichlorobenzene				0.00	0.56	0.66	85%	63-141
1,4-Dichlorobenzene				0.00	0.59	0.66	89%	76-142

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

QUALITY CONTROL REPORT

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION FIELD IDENTIFICATION MATRIX	DUPLICATE ANALYSIS FSC-2 SOIL			MATRIX SPIKE ANALYSIS FSC-2 SOIL				
BASE-NEUTRALS/ACID EXTRACTABLES (SW8270)	ALIQUOT #1	ALIQUOT #2	%RPD	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	CONTROL LIMITS
Phenol				0	5,600	7,600	73.7%	12-89
bis(2-Chloroethyl)ether								
2-Chlorophenol				0	5,600	7,600	73.7%	27-123
1,3-Dichlorobenzene								
1,4-Dichlorobenzene				0	2,000	3,800	52.6%	39-97
Benzyl alcohol								
1,2-Dichlorobenzene								
2-Methylphenol								
bis(2-Chloroisopropyl)ether								
4-Methylphenol								
N-Nitroso-Di-N-propylamine				0	2,600	3,800	68.4%	41-116
Hexachloroethane								
Nitrobenzene								
Isophorone								
2-Nitrophenol								
2,4-Dimethylphenol								
Benzoic acid								
bis(2-Chloroethoxy)methane								
2,4-Dichlorophenol								
1,2,4-Trichlorobenzene				0	2,300	3,800	60.5%	39-98
Naphthalene								
2-Chloroaniline								
Hexachlorobutadiene								
4-Chloro-3-methylphenol				0	6,400	7,600	84.2%	23-97
2-Methylnaphthalene								
Hexachlorocyclopentadiene								
2,4,6-Trichlorophenol								
2,4,5-Trichlorophenol								
2-Chloronaphthalene								
2-Nitroaniline								
Dimethyl phthalate								
Acenaphthylene								
3-Nitroaniline								
Acenaphthene				0	3,300	3,800	86.8%	46-118
2,4-Dinitrophenol								
4-Nitrophenol				0	8,300	7,600	109.2%	10-80
Dibenzofuran								
2,4-Dinitrotoluene				0	2,500	3,800	65.8%	24-96
2,6-Dinitrotoluene								
Diethylphthalate								
4-Chlorophenyl phenyl ether								
Fluorene								
4-Nitroaniline								
4,6-Dinitro-2-methylphenol								
N-Nitrosodiphenylamine								

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

QUALITY CONTROL REPORT

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION / *FIELD IDENTIFICATION* / MATRIX	DUPLICATE ANALYSIS FSC-2 SOIL			MATRIX SPIKE ANALYSIS FSC-2 SOIL				
BASE-NEUTRALS/ACID EXTRACTABLES (SW8270)	ALIQUOT #1	ALIQUOT #2	%RPD	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	CONTROL LIMITS
4-Bromophenyl phenyl ether								
Hexachlorobenzene								
Pentachlorophenol				0	2,600	7,600	34.2%	9-103
Phenanthrene	1,250	1,300	-3.9%					
Anthracene								
Di-n-butylphthalate								
Fluoranthene	2,070	1,530	30.0%					
Pyrene	2,450	2,940	-18.2%	2,450	5,650	3,800	84.2%	26-127
Butyl benzyl phthalate								
3,3'-Dichlorobenzidine								
Benzo(a)anthracene	879	776	12.4%					
bis(2-Ethylhexyl)phthalate	2,330	4,720	-67.8%					
Chrysene	845	833	1.4%					
Di-n-octyl phthalate								
Benzo(b)fluoranthene	741	774	-4.4%					
Benzo(k)fluoranthene	699	614	12.9%					
Benzo(a)pyrene	683	691	-1.2%					
Indeno(1,2,3-c,d)pyrene								
Dibenz(a,h)anthracene								
Benzo(g,h,i)perylene								

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	DUPLICATE ANALYSIS SW-23 AQUEOUS				DUPLICATE ANALYSIS GW-9 AQUEOUS				DUPLICATE ANALYSIS SD-23 SOIL			
MISCELLANEOUS INORGANICS	ALIQUOT #1	ALIQUOT #2		%RPD	ALIQUOT #1	ALIQUOT #2		%RPD	ALIQUOT #1	ALIQUOT #2		%RPD
Lead					42	42	ug/l	N/A				
Orthophosphate (A429)					5.3	5.3	ug/l	N/A				
Mercury (Cold Vapor)	0.2	0.2	ug/kg	N/A					20	24	ug/l	-18.2%

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	MATRIX SPIKE ANALYSIS SW-23 AQUEOUS				MATRIX SPIKE ANALYSIS GW-9 AQUEOUS				MATRIX SPIKE ANALYSIS SD-23 SOIL				
MISCELLANEOUS INORGANICS	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	CONTROL LIMITS
Lead					0.0	200	194	103%					75-125
Orthophosphate (A429)					0.0	16	25	64%					NA
Mercury (Cold Vapor)	0.00	0.31	0.38	82%					20	140	120	100%	75-125

SAIC

Project #A4837 and A4837C

Sample Number	Client No.	Compounds Detected	Detected Levels ug/L Primary	Secondary	Date of Analysis
160440	01	Trichloroethylene	0.42	0.91[2]	09/30/86
160441	02	Trichloroethylene	0.60	1.1*[2]	09/30/86
160442	03	Trichloroethylene	0.55	ND(0.12)[2]	09/30/86
160443	04	1,1,1-trichloroethane	0.14		09/30/86
		Trichloroethylene	0.39	0.34[2]	
		Benzene	1.8	ND(0.20)	
160444	05	1,1-dichloroethylene	0.21	ND(0.13)	09/30/86
		1,1-dichloroethane	0.15		
		Chloroform	8.6	8.8[1]	
		1,1,1-trichloroethane	0.14		
		Bromodichloromethane	0.31		
		Trichloroethylene	0.25	0.13[2]	
		Tetrachloroethylene	0.038	0.12[3]	
		Benzene	1.7	ND(0.20)	
160445	06	1,1,1-trichloroethane	0.047		09/30/86
		Trichloroethylene	0.63	ND(0.12)[2]	

*Average of duplicate runs

All confirmation analysis run on 10/03/86

SAIC

Project #A4849 and A4849C

Sample Number	Client No.	Compounds Detected	Detected Levels ug/L Primary	Secondary	Date of Analysis
160587	07	Trichloroethylene	0.16	0.27^{2}	09/30/86
160588	08	Trichloroethylene	0.45	0.60^{2}	09/30/86
160591	11	Benzene	0.58*	ND(0.20)	10/01/86

*Average of duplicate runs

COMMENTS

1. 1,1-dichloroethane and chloroform coelute. Results could be either one or both analytes.

2. 1,1,1-trichloroethane and trichloroethylene coelute. Results could be either one or both analytes.

3. Bromodichloromethane and tetrachloroethylene coelute. Results could be either one or both analytes.

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QUALITY CONTROL REPORT
DUPLICATE AND MATRIX SPIKE ANALYSIS

CLIENT: SAIC
TMA/ERG PROJECT NO A4837
DATE OF QC REPORT: 10-29-86

	DUPLICATE				MATRIX SPIKE		
Parameter	Sample Number	Sample A	Sample B	Relative Difference	Spike Added	Spiked Sample	Percent Recovery
		mg/L	mg/L	%	mg/L	mg/L	%
Arsenic	160377*	0.0130	0.0140	7.4	0.020	0.0334	100
Selenium	160377*	0.0026	0.0020	26	0.020	0.0208	92
Mercury	159801*	ND(0.0002)	ND(0.0002)	-	0.0010	0.0010	100

COMMENTS:
*Sample not part of client set but included in QC subset.

This QC report covers samples: 09/160440 - 09/160445
Signature of QC Coordinator: Philip A. Nobles

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QUALITY CONTROL REPORT
DUPLICATE AND MATRIX SPIKE ANALYSIS

CLIENT: SAIC
TMA/ERG PROJECT NO. A4837
DATE OF QC REPORT: 10-29-86

	DUPLICATE				MATRIX SPIKE		
Parameter	Sample Number	Sample A	Sample B	Relative Difference	Spike Added	Spiked Sample	Percent Recovery
		mg/L	mg/L	%	mg/L	mg/L	%
Alkalinity, Total	160440	285	282	0.7	-	-	-
Chloride	160184*	19.5	19.5	0	25	45	102
Sulfate	160341*	<1	<1	-	80	87	109
Nitrate	160420*	ND(0.01)	ND(0.01)	-	0.25	0.23	92
Nitrite	160420*	ND(0.01)	ND(0.01)	-	0.25	0.26	104
Ammonia-Nitrogen	160587*	0.15	0.16	6.4	0.25	0.44	114
Dissolved Solids, Total	160589*	700	770	9.5	-	-	-
Suspended Solids, Total	160637*	4.08	6.12	40	-	-	-
Fluoride, Total	160445	0.37	0.39	5.3	0.50	0.93	110

COMMENTS:

* Sample not part of client set but included in QC subset.

This QC report covers samples: 09/160440 - 09/160445

Signature of QC Coordinator: [illegible]

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QUALITY CONTROL REPORT
DUPLICATE AND MATRIX SPIKE ANALYSIS

CLIENT: SAIC
TMA/ERG PROJECT NO. A4837
DATE OF QC REPORT: 10-23-86

	DUPLICATE			MATRIX SPIKE		
Parameter	Sample A	Sample B	Relative Difference	Spiked Sample	Spike Added	Percent Recovery
Sample No: 160591*	ug/L	ug/L	%	ug/L	ug/L	%
Chloromethane	ND(0.08)	ND(0.08)	-	-	-	-
Bromomethane	ND(1.18)	ND(1.18)	-	-	-	-
Dichlorodifluoromethane	ND(1.81)	ND(1.81)	-	-	-	-
Vinyl Chloride	ND(0.18)	ND(0.18)	-	-	-	-
Chloroethane	ND(0.52)	ND(0.52)	-	-	-	-
Methylene Chloride	ND(0.25)	ND(0.25)	-	-	-	-
Trichlorofluoromethane	ND(0.50)	ND(0.50)	-	-	-	-
1,1 - Dichloroethylene	N[illegible]3)	ND(0.13)	-	6.06	6.44	106
1,1 - Dichloroethane	ND(0.07)	ND(0.07)	-	5.88	6.17	105
Trans - 1,2 - dichloroethyle	ND(0.10)	ND(0.10)	-	-	-	-
Chloroform	ND(0.05)	ND(0.05)	-	-	-	-
1,2 - Dichloroethane	ND(0.03)	ND(0.03)	-			
1,1,1 - Trichloroethane	ND(0.03)	ND(0.03)	-	6.69	8.53	127
Carbon Tetrachloride	ND(0.12)	ND(0.12)	-	-	-	-
Bromodichloromethane	ND(0.10)	ND(0.10)	-	-	-	-
1,2 - Dichloropropane	ND(0.04)	ND(0.04)	-	-	-	-
Trans - 1,3 - dichloropropane	ND(0.34)	ND(0.34)	-	-	-	-
Trichloroethylene	ND(0.12)	ND(0.12)	-	7.32	8.06	110
Dibromochloromethane	ND(0.09)	ND(0.09)	-	-	-	-
1,1,2 - Trichloroethane	ND(0.02)	ND(0.02)	-	-	-	-
Cis - 1,3 dichloropropane	ND(0.20)	ND(0.20)	-	-	-	-
2 - Chloroethylvinylether	ND(0.13)	ND(0.13)	-	-	-	-
Bromoform	ND(0.20)	ND(0.20)	-	-	-	-
1,1,2,2, - Tetrachloroethane	ND(0.03)	ND(0.03)	-	-	-	-
Tetrachloroethylene	ND(0.03)	ND(0.03)	-	-	-	-
Chlorobenzene	ND(0.25)	ND(0.25)	-	-	-	-

* Sample not part of client set but included in QC subset.

This QC report covers samples: 09/160440 - 09/160445

Signature of QC Coordinator: Philip J. Noble

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QUALITY CONTROL REPORT
DUPLICATE AND MATRIX SPIKE ANALYSIS

CLIENT: SAIC
TMA/ERG PROJECT NO. A4837
DATE OF QC REPORT: 10-23-86

	DUPLICATE			MATRIX SPIKE		
Parameter	Sample A	Sample B	Relative Difference	Spiked Sample	Spike Added	Percent Recovery
Sample No: 160591*	ug/L	ug/L	%	ug/L	ug/L	%
1,3 - Dichlorobenzene	ND(0.4)	ND(0.4)	-	-	-	-
1,2 - Dichlorobenzene	ND(0.4)	ND(0.4)	-	-	-	-
1,4 - Dichlorobenzene	ND(0.3)	ND(0.3)	-	-	-	-
Benzene	0.41	0.75	59	4.39	6.09	126
Toluene	ND(0.2)	ND(0.2)	-	-	-	-
Ethyl Benzene	ND(0.2)	ND(0.2)	-	-	-	-

* Sample not part of client set but included in QC subset.

This QC report covers samples: 09/160440 - 09/160445

[redacted]

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. SAIC #A4837 **Contract Laboratory** Thermo Analytical, Inc./ERG

	VOLATILE			SEMI-VOLATILE								PESTICIDE
SMO TRAFFIC NO.	TOLUENE-D8 (88-110)	BFB (86-121)	1,2 DICHLORO-ETHANE-D4 (77-120)	NITRO-BENZENE-D5 (41-120)	2-FLUORO-BIPHENYL (44-118)	TERPHENYL-D14 (33-128)			PHENOL-D5 (15-103)	2-FLUORO-PHENOL (23-121)	2,4,6 TRIBROMO-PHENOL (10-130)	DIBUTYL-CHLORENDATE (.8-136)
AB160440R				21	20	32			33	52	99	
AB160441				75	66	113			40	66	102	
AB160443				72	55	87			49	76	113	
AB160442				98	76	126			46	71	87	
AB160444				91	79	157			44	76	109	
AB160445				86	75	142			36	56	88	

Comments:

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. A4837 **Contractor** Thermo Analytical, Inc./ERG

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/L)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD
VOA SMO SAMPLE NO.	1,1-Dichloroethene							
	Trichloroethene							
	Chlorobenzene							
	Toluene							
	Benzene							
B/N SMO SAMPLE NO. 160196*	1,2,4-Trichlorobenzene	100	0	88	88	71	71	21
	Acenaphthene	100	0	87	87	80	80	8
	2,4 Dinitrotoluene	100	0	56	56	65	65	15
	Di-n-Butylphthalate							
	Pyrene	100	0	103	103	94	94	9
	N-Nitroso-Di-n-Propylamine	100	0	67	67	79	79	16
	1,4-Dichlorobenzene	100	0	87	87	79	79	10
ACID SMO SAMPLE NO. 160196*	Pentachlorophenol	200	0	211	105	171	86	20
	Phenol	200	0	114	57	117	59	3
	2-Chlorophenol	200	0	189	95	183	92	3
	4-Chloro-3-Methylphenol	200	0	170	85	180	95	11
	4-Nitrophenol	200	0	107	54	111	56	4
PEST SMO SAMPLE NO.	Lindane							
	Heptachlor							
	Aldrin							
	Dieldrin							
	Endrin							
	4,4'-DDT							

Comments: *Sample not part of client set but included in QC subset.

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QUALITY CONTROL REPORT
DUPLICATE AND MATRIX SPIKE ANALYSIS

CLIENT: SAIC
TMA/ERG PROJECT NO. A4849
DATE OF QC REPORT: 10-29-86

	DUPLICATE				MATRIX SPIKE		
Parameter	Sample Number	Sample A	Sample B	Relative Difference	Spike Added	Spiked Sample	Percent Recovery
		mg/L	mg/L	%	mg/L	mg/L	%
Arsenic	160377*	0.0130	0.0140	7.4	0.020	0.0334	100
Selenium	160377*	0.0026	0.0020	26	0.020	0.0208	92
Mercury	159801*	ND(0.0002)	ND(0.0002)	-	0.0010	0.0010	100

COMMENTS:

*Sample not part of client set but included in QC subset.

This QC report covers samples: 09/160587 - 09/160591

Signature of QC Coordinator: Philip J. Nichols

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QUALITY CONTROL REPORT
DUPLICATE AND MATRIX SPIKE ANALYSIS

CLIENT: SAIC
TMA/ERG PROJECT NO. A4849
DATE OF QC REPORT: 10-29-86

	DUPLICATE				MATRIX SPIKE		
Parameter	Sample Number	Sample A	Sample B	Relative Difference	Spike Added	Spiked Sample	Percent Recovery
		mg/L	mg/L	%	mg/L	mg/L	%
Alkalinity, Total	160591	201	198	1.5	-	-	-
Chloride	160467*	11	12		25	36.5	98
Sulfate	160341*	< 1	< 1	-	80	87	109
Nitrate	160587	ND(0.01)	ND(0.01)	-	0.25	0.24	96
Nitrite	160587	ND(0.01)	ND(0.01)	-	0.25	0.26	104
Ammonia Nitrogen	160587	0.15	0.16	6.4	0.25	0.44	114
Dissolved Solids, Total	160589	700	770	9.5	-	-	-
Suspended Solids, total	160637*	4.08	6.12	40	-	-	-
Fluoride, Total	160590	0.57	0.58	1.7	0.50	1.00	85

COMMENTS:
* Sample not part of client set but included in QC subset.

This QC report covers samples: 09/160587 - 09/160591
Signature of QC Coordinator: [signature]

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QUALITY CONTROL REPORT
DUPLICATE AND MATRIX SPIKE ANALYSIS

CLIENT: SAIC
TMA/ERG PROJECT NO. A4849
DATE OF QC REPORT: 10-23-86

Parameter	DUPLICATE			MATRIX SPIKE		
	Sample A	Sample B	Relative Difference	Spiked Sample	Spike Added	Percent Recovery
Sample No: 160591	ug/L	ug/L	%	ug/L	ug/L	%
Chloromethane	ND(0.08)	ND(0.08)	-	-	-	-
Bromomethane	ND(1.18)	ND(1.18)	-	-	-	-
Dichlorodifluoromethane	ND(1.81)	ND(1.81)	-	-	-	-
Vinyl Chloride	ND(0.18)	ND(0.18)	-	-	-	-
Chloroethane	ND(0.52)	ND(0.52)	-	-	-	-
Methylene Chloride	ND(0.25)	ND(0.25)	-	-	-	-
Trichlorofluoromethane	ND(0.50)	ND(0.50)	-	-	-	-
1,1 - Dichloroethylene	ND(0.13)	ND(0.13)	-	6.06	6.44	106
1,1 - Dichloroethane	ND(0.07)	ND(0.07)	-	5.88	6.17	105
Trans - 1,2 - dichloroethylene	ND(0.10)	ND(0.10)	-	-	-	-
Chloroform	ND(0.05)	ND(0.05)	-	-	-	-
1,2 - Dichloroethane	ND(0.03)	ND(0.03)	-			
1,1,1 - Trichloroethane	ND(0.03)	ND(0.03)	-	6.69	8.53	127
Carbon Tetrachloride	ND(0.12)	ND(0.12)	-	-	-	-
Bromodichloromethane	ND(0.10)	ND(0.10)	-	-	-	-
1,2 - Dichloropropane	ND(0.04)	ND(0.04)	-	-	-	-
Trans - 1,3 - dichloropropane	ND(0.34)	ND(0.34)	-	-	-	-
Trichloroethylene	ND(0.12)	ND(0.12)	-	7.32	8.06	110
Dibromochloromethane	ND(0.09)	ND(0.09)	-	-	-	-
1,1,2 - Trichloroethane	ND(0.02)	ND(0.02)	-	-	-	-
Cis - 1,3 dichloropropane	ND(0.20)	ND(0.20)	-	-	-	-
2 - Chloroethylvinylether	ND(0.13)	ND(0.13)	-	-	-	-
Bromoform	ND(0.20)	ND(0.20)	-	-	-	-
1,1,2,2, - Tetrachloroethane	ND(0.03)	ND(0.03)	-	-	-	-
Tetrachloroethylene	ND(0.03)	ND(0.03)	-	-	-	-
Chlorobenzene	ND(0.25)	ND(0.25)	-	-	-	-

This QC report covers samples: 09/160587 - 09/160591

Signature of QC Coordinator: Philip J. Noble

TMA
Thermo Analytical Inc.
TMA/ERG
117 North First Street
Ann Arbor, MI 48104 1399
(313) 662 3104

QUALITY CONTROL REPORT
DUPLICATE AND MATRIX SPIKE ANALYSIS

CLIENT: SAIC
TMA/ERG PROJECT NO. A4849
DATE OF QC REPORT: 10-23-86

	DUPLICATE			MATRIX SPIKE		
Parameter	Sample A	Sample B	Relative Difference	Spiked Sample	Spike Added	Percent Recovery
Sample No: 160591	ug/L	ug/L	%	ug/L	ug/L	%
1,3 - Dichlorobenzene	ND(0.4)	ND(0.4)	-	-	-	-
1,2 - Dichlorobenzene	ND(0.4)	ND(0.4)	-	-	-	-
1,4 - Dichlorobenzene	ND(0.3)	ND(0.3)	-	-	-	-
Benzene	0.41	0.75	59	4.39	6.09	126
Toluene	ND(0.2)	ND(0.2)	-	-	-	-
Ethyl Benzene	ND(0.2)	ND(0.2)	-	-	-	-

This QC report covers samples: 09/160587 - 09/160591

Signature of QC Coordinator:

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. SAIC #A4849 Contract Laboratory Thermo Analytical, Inc./ERG

	VOLATILE			SEMI-VOLATILE								PESTICIDE
SMO TRAFFIC NO.	TOLUENE-D8 (88-110)	BFB (85-121)	1,2 DICHLORO-ETHANE-D4 (77-120)	NITRO-BENZENE-D5 (41-120)	2-FLUORO-BIPHENYL (44-119)	TERPHENYL-D14 (33-128)			PHENOL-D5 (18-103)	2-FLUORO-PHENOL (23-121)	2,4,6 TRIBROMO PHENOL (10-130)	DIBUTYL-CHLORENDATE (48-136)
AB160587				103	72	123			56	88	106	
AB160588				100	65	115			51	80	124	
AB160589				97	74	123			44	72	123	
AB160590				80	66	103			33	50	80	
AB160591				87	65	121			53	83	115	

Comments:

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. A4849 Contractor Thermo Analytical, Inc./ERG

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/L)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD
VOA SMO SAMPLE NO.	1,1-Dichloroethene							
	Trichloroethene							
	Chlorobenzene							
	Toluene							
	Benzene							
B/N SMO SAMPLE NO.	1,2,4-Trichlorobenzene	50	0	30	60	30	60	0
	Acenaphthene	50	0	41	82	39	78	9
	2,4 Dinitrotoluene	50	0	10	20	10	20	0
	Di-n-Butylphthalate							
	Pyrene	50	0	48	96	39	78	21
	N-Nitroso-Di-n-Propylamine	50	0	60	120	28	56	73
160506*	1,4-Dichlorobenzene	50	0	27	54	28	56	4
ACID SMO SAMPLE NO.	Pentachlorophenol	100	0	DL		DL		
	Phenol	100	0	DL		DL		
	2-Chlorophenol	100	0	DL		DL		
	4-Chloro-3-Methylphenol	100	0	DL		DL		
160506*	4-Nitrophenol	100	0	DL		DL		
PEST SMO SAMPLE NO.	Lindane							
	Heptachlor							
	Aldrin							
	Dieldrin							
	Endrin							
	4,4'-DDT							

Comments: DL = Diluted out of detection. A 1 - 20 (effective) dilution was done.
*Sample not part of client set but included in QC subset.

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QUALITY CONTROL REPORT
DUPLICATE AND MATRIX SPIKE ANALYSIS

CLIENT: SAIC
TMA/ERG PROJECT NO. A4837C & A4849C
DATE OF QC REPORT: 10-23-86

Parameter	DUPLICATE Sample A	DUPLICATE Sample B	DUPLICATE Relative Difference	MATRIX SPIKE Spiked Sample	MATRIX SPIKE Spike Added	MATRIX SPIKE Percent Recovery
Sample No:	ug/L	ug/L	%	ug/L	ug/L	%
Chloromethane	ND(0.08)	ND(0.08)	-	-	-	-
Bromomethane	ND(1.18)	ND(1.18)	-	-	-	-
Dichlorodifluoromethane	ND(1.81)	ND(1.81)	-	-	-	-
Vinyl Chloride	ND(0.18)	ND(0.18)	-	-	-	-
Chloroethane	ND(0.52)	ND(0.52)	-	-	-	-
Methylene Chloride	ND(0.25)	ND(0.25)	-	-	-	-
Trichlorofluoromethane	ND(0.50)	ND(0.50)	-	-	-	-
1,1 - Dichloroethylene	ND(0.13)	ND(0.13)	-	-	-	-
1,1 - Dichloroethane	ND(0.07)	ND(0.07)	-	-	-	-
Trans - 1,2 - dichloroethylene	ND(0.10)	ND(0.10)	-	-	-	-
Chloroform	ND(0.05)	ND(0.05)	-	-	-	-
1,2 - Dichloroethane	ND(0.03)	ND(0.03)	-			
1,1,1 - Trichloroethane	ND(0.03)	ND(0.03)	-	6.69	8.53	127
Carbon Tetrachloride	ND(0.12)	ND(0.12)	-	-	-	-
Bromodichloromethane	ND(0.10)	ND(0.10)	-	-	-	-
1,2 - Dichloropropane	ND(0.04)	ND(0.04)	-	-	-	-
Trans - 1,3 - dichloropropane	ND(0.34)	ND(0.34)	-	-	-	-
Trichloroethylene	0.99	1.2	1.9	14.02	14.32	94
Dibromochloromethane	ND(0.09)	ND(0.09)	-	-	-	-
1,1,2 - Trichloroethane	ND(0.02)	ND(0.02)	-	-	-	-
Cis - 1,3 dichloropropane	ND(0.20)	ND(0.20)	-	-	-	-
2 - Chloroethylvinylether	ND(0.13)	ND(0.13)	-	-	-	-
Bromoform	ND(0.20)	ND(0.20)	-	-	-	-
1,1,2,2, - Tetrachloroethane	ND(0.03)	ND(0.03)	-	-	-	-
Tetrachloroethylene	ND(0.03)	ND(0.03)	-	-	-	-
Chlorobenzene	ND(0.25)	ND(0.25)	-	-	-	-

This QC report covers samples: 10/160812 - 10/160817; 10/160809 - 10/160811

Signature of QC Coordinator: Philip J. Nobb

TMA
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117 North First Street
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QUALITY CONTROL REPORT
DUPLICATE AND MATRIX SPIKE ANALYSIS

CLIENT: SAIC
TMA/ERG PROJECT NO. A4837C & A4849C
DATE OF QC REPORT: 10-23-86

Parameter	DUPLICATE Sample A	Sample B	Relative Difference	MATRIX SPIKE Spiked Sample	Spike Added	Percent Recovery
Sample No: 160591	ug/L	ug/L	%	ug/L	ug/L	%
1,3 - Dichlorobenzene	ND(0.4)	ND(0.4)	-	-	-	-
1,2 - Dichlorobenzene	ND(0.4)	ND(0.4)	-	-	-	-
1,4 - Dichlorobenzene	ND(0.3)	ND(0.3)	-	-	-	-
Benzene	ND(0.2)	ND(0.2)	-	-	-	-
Toluene	ND(0.2)	ND(0.2)	-	-	-	-
Ethyl Benzene	ND(0.2)	ND(0.2)	-	-	-	-

This QC report covers samples: 10/160812 - 10/160817; 10/160809 - 10/160811

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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #1
Phase II

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	Method Blank				87293001				87293002				87293003			
FIELD IDENTIFICATION	NA				GW-33				GW-34				GW-35			
MATRIX	AQUEOUS				AQUEOUS				AQUEOUS				AQUEOUS			
PURGEABLE HALOCARBONS (E601)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Chloromethane	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
Bromomethane	1.18	u	ug/l	1.18	1.18	u	ug/l	1.18	1.18	u	ug/l	1.18	1.18	u	ug/l	1.18
Vinyl chloride	0.18	u	ug/l	0.18	2.25	Cd	ug/l	0.18	0.18	u	ug/l	0.18	0.18	u	ug/l	0.18
Dichlorodifluoromethane	2.20	C	ug/l	1.81	2.25	Cd	ug/l	1.81	2.72	C	ug/l	1.81	2.77	C	ug/l	1.81
Chloroethane	0.52	u	ug/l	0.52	0.52	u	ug/l	0.52	0.52	u	ug/l	0.52	0.52	u	ug/l	0.52
Methylene chloride	0.25	u	ug/l	0.25	0.51	C	ug/l	0.25	0.54	C	ug/l	0.25	0.53	C	ug/l	0.25
Trichlorofluoromethane	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25
1,1-Dichloroethene	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13
1,1-Dichloroethane	0.07	u	ug/l	0.07	0.07	u	ug/l	0.07	0.07	u	ug/l	0.07	0.07	u	ug/l	0.07
trans-1,2-Dichloroethene	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
Chloroform	0.05	u	ug/l	0.05	0.05	u	ug/l	0.05	0.05	u	ug/l	0.05	0.05	u	ug/l	0.05
1,2-Dichloroethane	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
1,1,1-Trichloroethane	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.04	C	ug/l	0.03	0.03	u	ug/l	0.03
Carbon Tetrachloride	0.12	u	ug/l	0.12	0.12	u	ug/l	0.12	0.12	u	ug/l	0.12	0.12	u	ug/l	0.12
Bromodichloromethane	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
1,2-Dichloropropane	0.04	u	ug/l	0.04	0.04	u	ug/l	0.04	0.04	u	ug/l	0.04	0.04	u	ug/l	0.04
trans-1,3-Dichloropropene	0.34	u	ug/l	0.34	0.34	u	ug/l	0.34	0.34	u	ug/l	0.34	0.34	u	ug/l	0.34
Trichloroethene	0.12	u	ug/l	0.12	0.12	u	ug/l	0.12	0.12	u	ug/l	0.12	0.12	u	ug/l	0.12
Dibromochloromethane	0.09	u	ug/l	0.09	0.09	u	ug/l	0.09	0.09	u	ug/l	0.09	0.09	u	ug/l	0.09
1,1,2-Trchloroethane	0.02	u	ug/l	0.02	0.02	u	ug/l	0.02	0.02	u	ug/l	0.02	0.02	u	ug/l	0.02
cis-1,3-Dichloropropene	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20
2-Chloroethylvinyl ether	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13
Bromoform	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20
1,1,2,2-Tetrachloroethane	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
Tetrachloroethene	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
Chlorobenzene	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25
1,3-Dichlorobenzene	0.32	u	ug/l	0.32	0.32	u	ug/l	0.32	0.32	u	ug/l	0.32	0.32	u	ug/l	0.32
1,2-Dichlorobenzene	0.15	u	ug/l	0.15	0.15	u	ug/l	0.15	0.15	u	ug/l	0.15	0.15	u	ug/l	0.15
1,4-Dichlorobenzene	0.24	u	ug/l	0.24	0.24	u	ug/l	0.24	0.24	u	ug/l	0.24	0.24	u	ug/l	0.24
AROMATIC VOLATILE ORGANICS (SW8020)																
Benzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Toluene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Ethyl benzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Chlorobenzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Xylenes, Total	0.6	u	ug/l	0.6	0.6	u	ug/l	0.6	0.6	u	ug/l	0.6	0.6	u	ug/l	0.6
1,3-Dichlorobenzene	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4
1,2-Dichlorobenzene	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4
1,4-Dichlorobenzene	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #1

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	Method Blank				87293001				87293002				87293003			
FIELD IDENTIFICATION	NA				GW-33				GW-34				GW-35			
MATRIX	AQUEOUS				AQUEOUS				AQUEOUS				AQUEOUS			
BASE-NEUTRALS/ACID EXTRACTABLES (E625)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Phenol	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
bis(2-Chloroethyl)ether	10	u	ug/l	10	10	u	ug/l	10	10	u	ug/l	10	10	u	ug/l	10
2-Chlorophenol	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
1,3-Dichlorobenzene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
1,4-Dichlorobenzene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
1,2-Dichlorobenzene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
bis(2-Chloroisopropyl)ether	10	u	ug/l	10	10	u	ug/l	10	10	u	ug/l	10	10	u	ug/l	10
N-Nitroso-Di-N-propylamine	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Hexachloroethane	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Nitrobenzene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Isophorone	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
2-Nitrophenol	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
2,4-Dimethylphenol	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
bis(2-Chloroethoxy)methane	10	u	ug/l	10	10	u	ug/l	10	10	u	ug/l	10	10	u	ug/l	10
2,4-Dichlorophenol	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
1,2,4-Trichlorobenzene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Naphthalene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Hexachlorobutadiene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
4-Chloro-3-methylphenol	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Hexachlorocyclopentadiene	40	u	ug/l	40	40	u	ug/l	40	40	u	ug/l	40	40	u	ug/l	40
2,4,6-Trichlorophenol	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
2-Chloronaphthalene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Dimethyl phthalate	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Acenaphthylene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Acenaphthene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
2,4-Dinitrophenol	50	u	ug/l	50	50	u	ug/l	50	50	u	ug/l	50	50	u	ug/l	50
4-Nitrophenol	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
2,4-Dinitrotoluene	10	u	ug/l	10	10	u	ug/l	10	10	u	ug/l	10	10	u	ug/l	10
2,6-Dinitrotoluene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Diethylphthalate	20	u	ug/l	20	20	u	ug/l	20	20	u	ug/l	20	20	u	ug/l	20
4-Chlorophenyl phenyl ether	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Fluorene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
4,6-Dinitro-2-methylphenol	25	u	ug/l	25	25	u	ug/l	25	25	u	ug/l	25	25	u	ug/l	25
N-Nitrosodiphenylamine	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
4-Bromophenyl phenyl ether	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Hexachlorobenzene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Pentachlorophenol	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Phenanthrene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Anthracene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Di-n-butylphthalate	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Fluoranthene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Pyrene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Butyl benzyl phthalate	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
3,3'-Dichlorobenzidine	20	u	ug/l	20	20	u	ug/l	20	20	u	ug/l	20	20	u	ug/l	20

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #1

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION FIELD IDENTIFICATION MATRIX	Method Blank NA AQUEOUS				87293001 GW-33 AQUEOUS				87293002 GW-34 AQUEOUS				87293003 GW-35 AQUEOUS			
BASE-NEUTRALS/ACID EXTRACTABLES (E625)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Benzo(a)anthracene	10	u	ug/l	10	10	u	ug/l	10	10	u	ug/l	10	10	u	ug/l	10
bis(2-Ethylhexyl)phthalate	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Chrysene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Di-n-octyl phthalate	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Benzo(b)fluoranthene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Benzo(k)fluoranthene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Benzo(a)pyrene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Indeno(1,2,3-c,d)pyrene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Dibenz(a,h)anthracene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
Benzo(g,h,i)perylene	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5	5	u	ug/l	5
MISCELLANEOUS INORGANIC PARAMETERS																
Alkalinity, Total (A403)	--	u	mg/l	2	110		mg/l	2	330		mg/l	2	300		mg/l	2
Alkalinity, Bicarbonate (A403)	--	u	mg/l	2	110		mg/l	2	330		mg/l	2	300		mg/l	2
Alkalinity, Carbonate (A403)	--	u	mg/l	2	2	u	mg/l	2	2	u	mg/l	2	2	u	mg/l	2
Common Anions (A429)																
Fluoride	0.2	u	mg/l	0.2	0.2	u	mg/l	0.2	0.4	u	mg/l	0.4	0.4	u	mg/l	0.4
Chloride	0.5	u	mg/l	0.5	5.1		mg/l	0.5	6.4		mg/l	1.0	6.4		mg/l	1.0
Nitrate	2	u	mg/l	2	2	u	mg/l	2	4	u	mg/l	4	4	u	mg/l	4
OrthoPhosphate	4	u	mg/l	4	4	u	mg/l	4	8	u	mg/l	8	8	u	mg/l	8
Sulfate	3	u	mg/l	3	51		mg/l	3	5	u	mg/l	5	5	u	mg/l	5
Total Dissolved Solids (E160.1)	10	u	mg/l	10	240		mg/l	10	380		mg/l	10	380		mg/l	10
Arsenic (E206.2)	1	u	ug/l	1	1	u	ug/l	1	1	u	ug/l	1	1	u	ug/l	1
Mercury (E245.1)	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Selenium (E270.2)	2	u	ug/l	2	2	u	ug/l	2	2	u	ug/l	2	2	u	ug/l	2
MISCELLANEOUS ORGANIC PARAMETERS																
Petroleum Hydrocarbons (E418.1)	0.5	u	mg/l	0.5	0.5	u	mg/l	0.5	0.5	u	mg/l	0.5	0.5	u	mg/l	0.5

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #1

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	Method Blank				87293001				87293002				87293003			
FIELD IDENTIFICATION	NA				GW-33				GW-34				GW-35			
MATRIX	AQUEOUS				AQUEOUS				AQUEOUS				AQUEOUS			
ICAP SCAN (E200.7)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Aluminum	45	u	ug/l	45	880		ug/l	45	580		ug/l	45	660		ug/l	45
Antimony	32	u	ug/l	32	32	u	ug/l	32	32	u	ug/l	32	32	u	ug/l	32
Barium	2	u	ug/l	2	300		ug/l	2	160		ug/l	2	170		ug/l	2
Beryllium	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3
Boron	19		ug/l	5	5	u	ug/l	5	53		ug/l	5	54		ug/l	5
Cadmium	4	u	ug/l	4	4	u	ug/l	4	4	u	ug/l	4	4	u	ug/l	4
Calcium	36		ug/l	10	56,000		ug/l	10	100,000		ug/l	10	93,000		ug/l	10
Chromium	7	u	ug/l	7	7	u	ug/l	7	7	u	ug/l	7	7	u	ug/l	7
Cobalt	7	u	ug/l	7	7	u	ug/l	7	7	u	ug/l	7	7	u	ug/l	7
Copper	6	u	ug/l	6	13		ug/l	6	6	u	ug/l	6	6	u	ug/l	6
Iron	7	u	ug/l	7	1,800		ug/l	7	1,900		ug/l	7	2,000		ug/l	7
Lead	42	u	ug/l	42	42	u	ug/l	42	42	u	ug/l	42	42	u	ug/l	42
Magnesium	30	u	ug/l	30	9,900		ug/l	30	26,000		ug/l	30	24,000		ug/l	30
Manganese	2	u	ug/l	2	120		ug/l	2	620		ug/l	2	650		ug/l	2
Molybdenum	8	u	ug/l	8	18		ug/l	8	8	u	ug/l	8	8	u	ug/l	8
Nickel	15	u	ug/l	15	15	u	ug/l	15	15	u	ug/l	15	15	u	ug/l	15
Potassium	500	u	ug/l	500	1,100		ug/l	500	1,800		ug/l	500	1,700		ug/l	500
Silica	58	u	ug/l	58	4,000		ug/l	58	9,200		ug/l	58	9,300		ug/l	58
Silver	7	u	ug/l	7	7	u	ug/l	7	7	u	ug/l	7	7	u	ug/l	7
Sodium	29	u	ug/l	29	2,400		ug/l	29	3,100		ug/l	29	3,300		ug/l	29
Thallium	40	u	ug/l	40	40	u	ug/l	40	40	u	ug/l	40	83		ug/l	40
Vanadium	8	u	ug/l	8	8	u	ug/l	8	8	u	ug/l	8	8	u	ug/l	8
Zinc	4		ug/l	2	18		ug/l	2	8		ug/l	2	6		ug/l	2

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

Shipment #1
Phase II

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87293004				87293005			
FIELD IDENTIFICATION	GW-36				GW-37			
MATRIX	AQUEOUS				AQUEOUS			
PURGEABLE HALOCARBONS (E601)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Chloromethane	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
Bromomethane	1.18	u	ug/l	1.18	1.18	u	ug/l	1.18
Vinyl chloride	0.18	u	ug/l	0.18	0.18	u	ug/l	0.18
Dichlorodifluoromethane	2.41	C	ug/l	1.81	2.16	C	ug/l	1.81
Chloroethane	0.52	u	ug/l	0.52	0.52	u	ug/l	0.52
Methylene chloride	0.41	C	ug/l	0.25	0.25	u	ug/l	0.25
Trichlorofluoromethane	0.22	C	ug/l	0.20	0.22	C	ug/l	0.20
1,1-Dichloroethene	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13
1,1-Dichloroethane	0.07	u	ug/l	0.07	0.07	u	ug/l	0.07
trans-1,2-Dichloroethene	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
Chloroform	0.13	C	ug/l	0.05	0.93	C	ug/l	0.05
1,2-Dichloroethane	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
1,1,1-Trichloroethane	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
Carbon Tetrachloride	0.12	u	ug/l	0.12	0.12	u	ug/l	0.12
Bromodichloromethane	0.10	u	ug/l	0.10	0.10	u	ug/l	0.10
1,2-Dichloropropane	0.04	u	ug/l	0.04	0.04	u	ug/l	0.04
trans-1,3-Dichloropropene	0.34	u	ug/l	0.34	0.34	u	ug/l	0.34
Trichloroethene	0.12	u	ug/l	0.12	0.12	u	ug/l	0.12
Dibromochloromethane	0.09	u	ug/l	0.09	0.09	u	ug/l	0.09
1,1,2-Trchloroethane	0.02	u	ug/l	0.02	0.02	u	ug/l	0.02
cis-1,3-Dichloropropene	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20
2-Chloroethylvinyl ether	0.13	u	ug/l	0.13	0.13	u	ug/l	0.13
Bromoform	0.20	u	ug/l	0.20	0.20	u	ug/l	0.20
1,1,2,2-Tetrachloroethane	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
Tetrachloroethene	0.03	u	ug/l	0.03	0.03	u	ug/l	0.03
Chlorobenzene	0.25	u	ug/l	0.25	0.25	u	ug/l	0.25
1,3-Dichlorobenzene	0.32	u	ug/l	0.32	0.32	u	ug/l	0.32
1,2-Dichlorobenzene	0.15	u	ug/l	0.15	0.15	u	ug/l	0.15
1,4-Dichlorobenzene	0.24	u	ug/l	0.24	0.24	u	ug/l	0.24
AROMATIC VOLATILE ORGANICS (SW8020)								
Benzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Toluene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Ethyl benzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Chlorobenzene	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Xylenes, Total	0.6	u	ug/l	0.6	0.6	u	ug/l	0.6
1,3-Dichlorobenzene	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4
1,2-Dichlorobenzene	0.4	u	ug/l	0.4	0.4	u	ug/l	0.4
1,4-Dichlorobenzene	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87293004				87293005			
FIELD IDENTIFICATION	GW-36				GW-37			
MATRIX	AQUEOUS				AQUEOUS			
BASE-NEUTRALS/ACID EXTRACTABLES (E625)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Phenol	5	u	ug/l	5	5	u	ug/l	5
bis(2-Chloroethyl)ether	10	u	ug/l	10	10	u	ug/l	10
2-Chlorophenol	5	u	ug/l	5	5	u	ug/l	5
1,3-Dichlorobenzene	5	u	ug/l	5	5	u	ug/l	5
1,4-Dichlorobenzene	5	u	ug/l	5	5	u	ug/l	5
1,2-Dichlorobenzene	5	u	ug/l	5	5	u	ug/l	5
bis(2-Chloroisopropyl)ether	10	u	ug/l	10	10	u	ug/l	10
N-Nitroso-Di-N-propylamine	5	u	ug/l	5	5	u	ug/l	5
Hexachloroethane	5	u	ug/l	5	5	u	ug/l	5
Nitrobenzene	5	u	ug/l	5	5	u	ug/l	5
Isophorone	5	u	ug/l	5	5	u	ug/l	5
2-Nitrophenol	5	u	ug/l	5	5	u	ug/l	5
2,4-Dimethylphenol	5	u	ug/l	5	5	u	ug/l	5
bis(2-Chloroethoxy)methane	10	u	ug/l	10	10	u	ug/l	10
2,4-Dichlorophenol	5	u	ug/l	5	5	u	ug/l	5
1,2,4-Trichlorobenzene	5	u	ug/l	5	5	u	ug/l	5
Naphthalene	5	u	ug/l	5	5	u	ug/l	5
Hexachlorobutadiene	5	u	ug/l	5	5	u	ug/l	5
4-Chloro-3-methylphenol	5	u	ug/l	5	5	u	ug/l	5
Hexachlorocyclopentadiene	40	u	ug/l	40	40	u	ug/l	40
2,4,6-Trichlorophenol	5	u	ug/l	5	5	u	ug/l	5
2-Chloronaphthalene	5	u	ug/l	5	5	u	ug/l	5
Dimethyl phthalate	5	u	ug/l	5	5	u	ug/l	5
Acenaphthylene	5	u	ug/l	5	5	u	ug/l	5
Acenaphthene	5	u	ug/l	5	5	u	ug/l	5
2,4-Dinitrophenol	50	u	ug/l	50	50	u	ug/l	50
4-Nitrophenol	5	u	ug/l	5	5	u	ug/l	5
2,4-Dinitrotoluene	10	u	ug/l	10	10	u	ug/l	10
2,6-Dinitrotoluene	5	u	ug/l	5	5	u	ug/l	5
Diethylphthalate	20	u	ug/l	20	20	u	ug/l	20
4-Chlorophenyl phenyl ether	5	u	ug/l	5	5	u	ug/l	5
Fluorene	5	u	ug/l	5	5	u	ug/l	5
4,6-Dinitro-2-methylphenol	25	u	ug/l	25	25	u	ug/l	25
N-Nitrosodiphenylamine	5	u	ug/l	5	5	u	ug/l	5
4-Bromophenyl phenyl ether	5	u	ug/l	5	5	u	ug/l	5
Hexachlorobenzene	5	u	ug/l	5	5	u	ug/l	5
Pentachlorophenol	5	u	ug/l	5	5	u	ug/l	5
Phenanthrene	5	u	ug/l	5	5	u	ug/l	5
Anthracene	5	u	ug/l	5	5	u	ug/l	5
Di-n-butylphthalate	5	u	ug/l	5	5	u	ug/l	5
Fluoranthene	5	u	ug/l	5	5	u	ug/l	5
Pyrene	5	u	ug/l	5	5	u	ug/l	5
Butyl benzyl phthalate	5	u	ug/l	5	5	u	ug/l	5
3,3'-Dichlorobenzidine	20	u	ug/l	20	20	u	ug/l	20

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION FIELD IDENTIFICATION MATRIX	87293004 GW-36 AQUEOUS				87293005 GW-37 AQUEOUS			
BASE-NEUTRALS/ACID EXTRACTABLES (E625)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAC	UNITS	PQL
Benzo(a)anthracene	10	u	ug/l	10	10	u	ug/l	10
bis(2-Ethylhexyl)phthalate	5	u	ug/l	5	5	u	ug/l	5
Chrysene	5	u	ug/l	5	5	u	ug/l	5
Di-n-octyl phthalate	5	u	ug/l	5	5	u	ug/l	5
Benzo(b)fluoranthene	5	u	ug/l	5	5	u	ug/l	5
Benzo(k)fluoranthene	5	u	ug/l	5	5	u	ug/l	5
Benzo(a)pyrene	5	u	ug/l	5	5	u	ug/l	5
Indeno(1,2,3-c,d)pyrene	5	u	ug/l	5	5	u	ug/l	5
Dibenz(a,h)anthracene	5	u	ug/l	5	5	u	ug/l	5
Benzo(g,h,i)perylene	5	u	ug/l	5	5	u	ug/l	5
MISCELLANEOUS INORGANIC PARAMETERS								
Alkalinity, Total (A403)	560		mg/l	2	360		mg/l	2
Alkalinity, Bicarbonate (A403)	560		mg/l	2	360		mg/l	2
Alkalinity, Carbonate (A403)	2	u	mg/l	2	2	u	mg/l	2
Common Anions (A429)								
Fluoride	1.0	u	mg/l	1.0	0.4	u	mg/l	0.4
Chloride	10		mg/l	2.5	7.3		mg/l	1.0
Nitrate	10	u	mg/l	10	4	u	mg/l	4
OrthoPhosphate	20	u	mg/l	20	8	u	mg/l	8
Sulfate	15	u	mg/l	15	31		mg/l	6
Total Dissolved Solids (E160.1)	650		mg/l	10	410		mg/l	10
Arsenic (E206.2)	5	u	ug/l	5	5	u	ug/l	5
Mercury (E245.1)	0.2	u	ug/l	0.2	0.2	u	ug/l	0.2
Selenium (E270.2)	5	u	ug/l	5	5	u	ug/l	5
MISCELL'NEOUS ORGANIC PARAMETERS								
Petroleum Hydrocarbons (E418.1)	0.5	u	mg/l	0.5	0.5	u	mg/l	0.5

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87293004				87293005			
FIELD IDENTIFICATION	GW-36				GW-37			
MATRIX	AQUEOUS				AQUEOUS			
ICAP SCAN (E200.7)	TEST RESULTS	FLAG	UNITS	PQL	TEST RESULTS	FLAG	UNITS	PQL
Aluminum	610		ug/l	45	740		ug/l	45
Antimony	32	u	ug/l	32	32	u	ug/l	32
Barium	82		ug/l	2	300		ug/l	2
Beryllium	0.3	u	ug/l	0.3	0.3	u	ug/l	0.3
Boron	65		ug/l	5	42		ug/l	5
Cadmium	4	u	ug/l	4	4	u	ug/l	4
Calcium	160,000		ug/l	10	99,000		ug/l	10
Chromium	7	u	ug/l	7	7	u	ug/l	7
Cobalt	7	u	ug/l	7	7	u	ug/l	7
Copper	6	u	ug/l	6	6	u	ug/l	6
Iron	490		ug/l	7	1,300		ug/l	7
Lead	42	u	ug/l	42	42	u	ug/l	42
Magnesium	39,000		ug/l	30	22,000		ug/l	30
Manganese	2,300		ug/l	2	560		ug/l	2
Molybdenum	14		ug/l	8	24		ug/l	8
Nickel	15	u	ug/l	15	15	u	ug/l	15
Potassium	500	u	ug/l	500	700		ug/l	500
Silica	9,700		ug/l	58	7,300		ug/l	58
Silver	7	u	ug/l	7	7	u	ug/l	7
Sodium	5,200		ug/l	29	2,500		ug/l	29
Thallium	150		ug/l	40	140		ug/l	40
Vanadium	8	u	ug/l	8	8	u	ug/l	8
Zinc	2	u	ug/l	2	9		ug/l	2

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION FIELD IDENTIFICATION MATRIX	Method Blank NA CONFIRMATION ANALYSIS		87293001 GW-33 CONFIRMATION ANALYSIS		87293002 GW-34 CONFIRMATION ANALYSIS		87293003 GW-35 CONFIRMATION ANALYSIS	
PURGEABLE HALOCARBONS (E601)	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS
Chloromethane	NR	NR	NR	NR	NR	NR	NR	NR
Bromomethane	NR	NR	NR	NR	NR	NR	NR	NR
Vinyl chloride	2.20 d	ND NC	2.25 d	0.28 C	2.74 d	ND NC	2.77 d	ND NC
Dichlorodifluoromethane	2.20 d	8.68 C	2.25 d	9.72 C	2.74 d	9.72 C	2.77 d	9.54 C
Chloroethane	NR	NR	NR	NR	NR	NR	NR	NR
Methylene chloride	0.39	ND NC	0.51	2.28 C	0.54	0.74 C	0.53	1.50 C
Trichlorofluoromethane	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethane	NR	NR	NR	NR	NR	NR	NR	NR
trans-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR	NR
Chloroform	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichloroethane	NR	NR	NR	NR	NR	NR	NR	NR
1,1,1-Trichloroethane	NR	NR	0.04	ND NC	0.04	0.03 C	0.06	ND NC
Carbon Tetrachloride	NR	NR	NR	NR	NR	NR	NR	NR
Bromodichloromethane	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichloropropane	NR	NR	NR	NR	NR	NR	NR	NR
trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR	NR	NR
Trichloroethene	NR	NR	NR	NR	NR	NR	NR	NR
Dibromochloromethane	NR	NR	NR	NR	NR	NR	NR	NR
1,1,2-Trchloroethane	NR	NR	NR	NR	NR	NR	NR	NR
cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR	NR	NR
2-Chloroethylvinyl ether	NR	NR	NR	NR	NR	NR	NR	NR
Bromoform	NR	NR	NR	NR	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR	NR	NR
Tetrachloroethene	NR	NR	NR	NR	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
AROMATIC VOLATILE ORGANICS (SW8020)								
Benzene	NR	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR	NR
Ethyl benzene	NR	NR	NR	NR	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
Xylenes, Total	NR	NR	NR	NR	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR	NR	NR	NR	NR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION	87293005 4		87293005	
FIELD IDENTIFICATION	GW-36		GW-37	
MATRIX	CONFIRMATION ANALYSIS		CONFIRMATION ANALYSIS	
PURGEABLE HALOCARBONS (E601)	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS	PRIMARY ANALYSIS	CONFIRMATION ANALYSIS
Chloromethane	NR	NR	NR	NR
Bromomethane	NR	NR	NR	NR
Vinyl chloride	2.41 d	ND NC	2.16 d	ND NC
Dichlorodifluoromethane	2.41 d	9.32 C	2.16 d	10.00 C
Chloroethane	NR	NR	NR	NR
Methylene chloride	0.41	1.42 C	0.42	1.28 C
Trichlorofluoromethane	0.22	0.23 C	0.22	0.23 C
1,1-Dichloroethene	NR	NR	NR	NR
1,1-Dichloroethane	NR	NR	NR	NR
trans-1,2-Dichloroethene	NR	NR	NR	NR
Chloroform	0.13	0.22 C	0.93	0.81 C
1,2-Dichloroethane	0.03	0.07 C	NR	NR
1,1,1-Trichloroethane	NR	NR	0.03	ND NC
Carbon Tetrachloride	NR	NR	NR	NR
Bromodichloromethane	NR	NR	NR	NR
1,2-Dichloropropane	NR	NR	NR	NR
trans-1,3-Dichloropropene	NR	NR	NR	NR
Trichloroethene	NR	NR	NR	NR
Dibromochloromethane	NR	NR	NR	NR
1,1,2-Trchloroethane	NR	NR	NR	NR
cis-1,3-Dichloropropene	NR	NR	NR	NR
2-Chloroethylvinyl ether	NR	NR	NR	NR
Bromoform	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR	NR	NR
Tetrachloroethene	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR
AROMATIC VOLATILE ORGANICS (SW8020)				
Benzene	NR	NR	NR	NR
Toluene	NR	NR	0.3	ND NC
Ethyl benzene	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	NR
Xylenes, Total	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

NOTES AND COMMENTS:

u = Not detected at the limits given.

d = Vinyl chloride and dichlorodifluoromethane coelute, the value is the total of both peaks.

C = Compound found on both the primary and secondary column above the indicated detection limit.

CI = Compound found on both the primary and secondary column, however there is potential interference from another compound which on the secondary column prevents accurate quantitation of the peak of interest.

NC = Compound found on the primary column but not on the secondary column at or above the detection limit indicated.

NA = Not applicable.

NR = Not required.

ND = Not detected.

All volatile, halogenated compounds included in the 8020 analysis and in the 601 analysis were quantitated using their response from the 601 analysis.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

QUALITY CONTROL REPORT

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	DUPLICATE ANALYSIS GW-37 AQUEOUS				MATRIX SPIKE ANALYSIS GW-37 AQUEOUS				
PURGEABLE HALOCARBONS (E601)	ALIQUOT #1	ALIQUOT #2	%RPD	CONTROL LIMITS	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	CONTROL LIMITS
Chloromethane	ND	ND	NA	0-20%	0.00	0.00	0.0	NA	0-193%
Bromomethane	ND	ND	NA	0-20%	0.00	0.00	0.0	NA	0-144%
Vinyl chloride	2.16	1.82	17%	0-20%	2.16	2.20	0.0	NA	60-110%
Dichlorodifluoromethane	2.16	1.82	17%	0-20%	2.16	2.20	0.0	NA	60-110%
Chloroethane	ND	ND	NA	0-20%	0.00	0.00	0.0	NA	70-115%
Methylene chloride	0.42	0.45	7%	0-20%	0.42	1.21	1.0	79%	70-115%
Trichlorofluoromethane	0.22	0.20	10%	0-20%	0.22	1.13	1.0	91%	70-115%
1,1-Dichloroethene	ND	ND	NA	0-20%	0.00	0.92	1.0	92%	61-145%
1,1-Dichloroethane	ND	ND	NA	0-20%	0.00	0.90	1.0	90%	85-115%
trans-1,2-Dichloroethene	ND	ND	NA	0-20%	0.00	0.77	1.0	77%	70-115%
Chloroform	0.93	0.84	10%	0-20%	0.93	1.63	1.0	70%	70-115%
1,2-Dichloroethane	ND	ND	NA	0-20%	0.00	0.94	1.0	94%	70-115%
1,1,1-Trichloroethane	0.03	0.06	67%	0-20% *	0.03	0.85	1.0	82%	75-120%
Carbon Tetrachloride	ND	ND	NA	0-20%	0.00	0.81	1.0	81%	75-120%
Bromodichloromethane	ND	ND	NA	0-20%	0.00	0.89	1.0	89%	75-120%
1,2-Dichloropropane	ND	ND	NA	0-20%	0.00	0.86	1.0	86%	70-115%
trans-1,3-Dichloropropene	ND	ND	NA	0-20%	0.00	0.86	1.0	86%	70-115%
Trichloroethene	ND	ND	NA	0-20%	0.00	0.81	1.0	81%	70-115%
Dibromochloromethane	ND	ND	NA	0-20%	0.00	2.92	3.0	97%	65-105%
1,1,2-Trchloroethane	ND	ND	NA	0-20%	0.00	2.92	3.0	97%	65-105%
cis-1,3-Dichloropropene	ND	ND	NA	0-20%	0.00	2.92	3.0	97%	65-105%
2-Chloroethylvinyl ether	ND	ND	NA	0-20%	0.00	0.00	1.0	0%	0-186%
Bromoform	ND	ND	NA	0-20%	0.00	1.04	1.0	104%	13-159%
1,1,2,2-Tetrachloroethane	ND	ND	NA	0-20%	0.00	1.78	2.0	89%	80-125%
Tetrachloroethene	ND	ND	NA	0-20%	0.00	1.78	2.0	89%	80-125%
Chlorobenzene	ND	ND	NA	0-20%	0.00	0.76	1.0	76%	75-125%
1,3-Dichlorobenzene	ND	ND	NA	0-20%	0.00	2.01	3.0	67%	73-135% **
1,2-Dichlorobenzene	ND	ND	NA	0-20%	0.00	2.01	3.0	67%	63-141%
1,4-Dichlorobenzene	ND	ND	NA	0-20%	0.00	2.01	3.0	67%	76-142% **
AROMATIC VOLATILE ORGANICS (SW8020)									
Benzene	ND	ND	NA	0-20%	0.0	1.0	1.0	100%	85-115%
Toluene	0.3	0.2	40%	0-20% *	0.3	0.9	1.0	64%	75-125% **
Ethyl benzene	ND	ND	NA	0-20%	0.0	0.8	1.0	78%	75-125%
Chlorobenzene	ND	ND	NA	0-20%	0.00	0.76	1.0	76%	75-125%
Xylenes, Total	ND	ND	NA	0-20%	0.0	1.3	2.0	67%	65-135%
1,3-Dichlorobenzene	ND	ND	NA	0-20%	0.00	2.01	3.0	67%	73-135%
1,2-Dichlorobenzene	ND	ND	NA	0-20%	0.00	2.01	3.0	67%	63-141%
1,4-Dichlorobenzene	ND	ND	NA	0-20%	0.00	2.01	3.0	67%	76-142%

*RPD values for 1,1,1-trichloroethane and toluene are relative high due to their proximaty to the detection limits for these compounds. The values calculated are considered to be acceptable by the laboratory based on historical data.

**Outside laboratory established control limits for percent recovery. Corrective action required only when more than five compounds fall outside the established control limits for this analysis.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

QUALITY CONTROL REPORT

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	DUPLICATE ANALYSIS GW-36 AQUEOUS				MATRIX SPIKE ANALYSIS GW-37 AQUEOUS				
BASE-NEUTRALS/ACID EXTRACTABLES (SW8270)	ALIQUOT #1	ALIQUOT #2	%RPD	CONTROL LIMITS	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	CONTROL LIMITS
Phenol	ND	ND	NA		0	100	200	50%	12-89%
bis(2-Chloroethyl)ether	ND	ND	NA		----	----	----	NA	
2-Chlorophenol	ND	ND	NA		0	153	200	77%	27-123%
1,3-Dichlorobenzene	ND	ND	NA		----	----	----	NA	
1,4-Dichlorobenzene	ND	ND	NA		0	63	100	63%	39-97%
Benzyl alcohol	ND	ND	NA		----	----	----	NA	
1,2-Dichlorobenzene	ND	ND	NA		----	----	----	NA	
2-Methylphenol	ND	ND	NA		----	----	----	NA	
bis(2-Chloroisopropyl)ether	ND	ND	NA		----	----	----	NA	
4-Methylphenol	ND	ND	NA		----	----	----	NA	
N-Nitroso-Di-N-propylamine	ND	ND	NA		0	77	100	77%	41-116%
Hexachloroethane	ND	ND	NA		----	----	----	NA	
Nitrobenzene	ND	ND	NA		----	----	----	NA	
Isophorone	ND	ND	NA		----	----	----	NA	
2-Nitrophenol	ND	ND	NA		----	----	----	NA	
2,4-Dimethylphenol	ND	ND	NA		----	----	----	NA	
Benzoic acid	ND	ND	NA		----	----	----	NA	
bis(2-Chloroethoxy)methane	ND	ND	NA		----	----	----	NA	
2,4-Dichlorophenol	ND	ND	NA		----	----	----	NA	
1,2,4-Trichlorobenzene	ND	ND	NA		0	67	100	67%	39-98%
Naphthalene	ND	ND	NA		----	----	----	NA	
2-Chloroaniline	ND	ND	NA		----	----	----	NA	
Hexachlorobutadiene	ND	ND	NA		----	----	----	NA	
4-Chloro-3-methylphenol	ND	ND	NA		0	149	200	75%	23-97%
2-Methylnaphthalene	ND	ND	NA		----	----	----	NA	
Hexachlorocyclopentadiene	ND	ND	NA		----	----	----	NA	
2,4,6-Trichlorophenol	ND	ND	NA		----	----	----	NA	
2,4,5-Trichlorophenol	ND	ND	NA		----	----	----	NA	
2-Chloronaphthalene	ND	ND	NA		----	----	----	NA	
2-Nitroaniline	ND	ND	NA		----	----	----	NA	
Dimethyl phthalate	ND	ND	NA		----	----	----	NA	
Acenaphthylene	ND	ND	NA		----	----	----	NA	
3-Nitroaniline	ND	ND	NA		----	----	----	NA	
Acenaphthene	ND	ND	NA		0	81	100	81%	46-118%
2,4-Dinitrophenol	ND	ND	NA		----	----	----	NA	
4-Nitrophenol	ND	ND	NA		0	88	200	44%	10-80%
Dibenzofuran	ND	ND	NA		----	----	----	NA	
2,4-Dinitrotoluene	ND	ND	NA		0	78	100	78%	24-96%
2,6-Dinitrotoluene	ND	ND	NA		----	----	----	NA	
Diethylphthalate	ND	ND	NA		----	----	----	NA	
4-Chlorophenyl phenyl ether	ND	ND	NA		----	----	----	NA	
Fluorene	ND	ND	NA		----	----	----	NA	
4-Nitroaniline	ND	ND	NA		----	----	----	NA	
4,6-Dinitro-2-methylphenol	ND	ND	NA		----	----	----	NA	
N-Nitrosodiphenylamine	ND	ND	NA		----	----	----	NA	

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

QUALITY CONTROL REPORT

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX: DUPLICATE ANALYSIS GW-36 AQUEOUS; MATRIX SPIKE ANALYSIS GW-37 AQUEOUS

BASE-NEUTRALS/ACID EXTRACTABLES (SW8270)	ALIQUOT #1	ALIQUOT #2	%RPD	CONTROL LIMITS	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	CONTROL LIMITS
4-Bromophenyl phenyl ether	ND	ND	NA		----	----	----	NA	
Hexachlorobenzene	ND	ND	NA		----	----	----	NA	
Pentachlorophenol	ND	ND	NA		0	91	200	46%	9-103%
Phenanthrene	ND	ND	NA		----	----	----	NA	
Anthracene	ND	ND	NA		----	----	----	NA	
Di-n-butylphthalate	ND	ND	NA		----	----	----	NA	
Fluoranthene	ND	ND	NA		----	----	----	NA	
Pyrene	ND	ND	NA		0	98	100	98%	26-127%
Butyl benzyl phthalate	ND	ND	NA		----	----	----	NA	
3,3'-Dichlorobenzidine	ND	ND	NA		----	----	----	NA	
Benzo(a)anthracene	ND	ND	NA		----	----	----	NA	
bis(2-Ethylhexyl)phthalate	ND	ND	NA		----	----	----	NA	
Chrysene	ND	ND	NA		----	----	----	NA	
Di-n-octyl phthalate	ND	ND	NA		----	----	----	NA	
Benzo(b)fluoranthene	ND	ND	NA		----	----	----	NA	
Benzo(k)fluoranthene	ND	ND	NA		----	----	----	NA	
Benzo(a)pyrene	ND	ND	NA		----	----	----	NA	
Indeno(1,2,3-c,d)pyrene	ND	ND	NA		----	----	----	NA	
Dibenz(a,h)anthracene	ND	ND	NA		----	----	----	NA	
Benzo(g,h,i)perylene	ND	ND	NA		----	----	----	NA	

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX: DUPLICATE ANALYSIS GW-33 AQUEOUS; MATRIX SPIKE ANALYSIS GW-33 AQUEOUS

MISCELLANEOUS INORGANIC PARAMETERS	ALIQUOT #1	ALIQUOT #2	%RPD	CONTROL LIMITS	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	CONTROL LIMITS
Alkalinity, Total (A403)	110	110	0%	0-25%	----	----	----	----	----
Alkalinity, Bicarbonate (A403)	110	110	0%	0-25%	----	----	----	----	----
Alkalinity, Carbonate (A403)	ND	ND	NA	0-25%	----	----	----	----	----
Common Anions (A429)									
Fluoride	ND	ND	NA	0-25%	0.00	0.22	0.25	88%	80-120%
Chloride	5.3	5.1	4%	0-25%	2.6	5.1	2.5	100%	80-120%
Nitrate	ND	ND	NA	0-25%	0.0	4.7	5.0	94%	80-120%
Orthophosphate	ND	ND	NA	0-25%	0.0	12.1	12.5	97%	80-120%
Sulfate	53	51	4%	0-25%	26	49	25	92%	80-120%
Total Dissolved Solids (E160.1)	240	230	4%	0-25%	----	----	----	----	----
Arsenic (E206.2)	ND	ND	NA	0-25%	0	11	10	110%	75-125%
Mercury (E245.1)	ND	ND	NA	0-25%	0	0.72	0.75	96%	75-125%
Selenium (E270.2)	ND	ND	NA	0-25%	0	18	20	90%	75-125%

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

QUALITY CONTROL REPORT

PROJECT NO. : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	DUPLICATE ANALYSIS GW-36 AQUEOUS				MATRIX SPIKE ANALYSIS GW-37 AQUEOUS				
MISCELLANEOUS ORGANIC PARAMETERS	ALIQUOT #1	ALIQUOT #2	%RPD	CONTROL LIMITS	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	CONTROL LIMITS
Petroleum hydrocarbons (E418.1)	(1)	(1)	(1)		(1)	(1)	(1)	(1)	(1)

SAIC SAMPLE IDENTIFICATION / FIELD IDENTIFICATION / MATRIX	DUPLICATE ANALYSIS GW-36 AQUEOUS				MATRIX SPIKE ANALYSIS GW-33 AQUEOUS				
ICAP METALS SCAN (E200.7)	ALIQUOT #1	ALIQUOT #2	%RPD	CONTROL LIMITS	ORIGINAL RESULTS	SPIKED RESULTS	AMT SPIKED	% REC	CONTROL LIMITS
Aluminum	890	1,000	12%	0-25%	880	3,000	2,000	106%	75-125%
Antimony	ND	ND	NA	0-25%	0	390	500	78%	75-125%
Barium	290	360	22%	0-25%	300	1,200	1,000	90%	75-125%
Beryllium	ND	ND	NA	0-25%	0	420	500	84%	75-125%
Boron	ND	ND	NA	0-25%	0	920	1,000	92%	75-125%
Cadmium	ND	ND	NA	0-25%	0	420	500	84%	75-125%
Calcium	56,000	58,000	4%	0-25%	56,000	82,000	20,000	130%	75-125% **
Chromium	ND	ND	NA	0-25%	0	910	1,000	91%	75-125%
Cobalt	ND	ND	NA	0-25%	0	810	1,000	81%	75-125%
Copper	13	8	48%	0-25% *	13	820	1,000	81%	75-125%
Iron	1,800	2,000	11%	0-25%	1,800	2,900	1,000	110%	75-125%
Lead	ND	ND	NA	0-25%	0	1,700	2,000	85%	75-125%
Magnesium	9,900	10,000	1%	0-25%	9,900	25,000	20,000	76%	75-125%
Manganese	120	120	0%	0-25%	120	980	1,000	86%	75-125%
Molybdenum	18	17	6%	0-25%	18	850	1,000	83%	75-125%
Nickel	ND	ND	NA	0-25%	0	420	500	84%	75-125%
Potassium	1,100	1,100	0%	0-25%	1,100	5,900	2,137	225%	70-300% ***
Silica	4,000	4,100	2%	0-25%	4,000	23,000	20,000	95%	75-125%
Silver	ND	ND	NA	0-25%	0	82.0	85.5	96%	75-125%
Sodium	2,400	2,300	4%	0-25%	2,400	20,000	20,000	88%	75-125%
Thallium	ND	ND	NA	0-25%	0	1,800	2,000	90%	75-125%
Vanadium	ND	ND	NA	0-25%	0	430	500	86%	75-125%
Zinc	18	15	18%	0-25%	18	860	1,000	84%	75-125%

(1)Insufficient sample volumes to perform quality control check.
*Outside control limits established for RPD for this parameter.
**Outside control limits established for percent recovery for this parameter. Analysis of a check sample indicated possible matrix interference for this sample

***Potassium poses significant ionization problems when analyzed by ICAP,resulting in wide variance for percent recovery. Control limits for percent recovery have been established using a limited number of data points.

SCIENCE APPLICATIONS IONAL CORPORATION
ENVIRONMENTAL CHEMISTRY DIVISION

PROJECT NO : 2-885-06-624
PROJECT NAME: HANCOCK FIELD

SAIC LAB ID (87293)	FIELD ID	PARAMETER	DATE COLLECTED	DATE RECEIVED BY LAB	DATE OF EXTRACTION	EXTRACTION HOLDING TIME	DATE OF ANALYSIS	ANALYSIS HOLDING TIME
001	GW-33	VOC	19-Oct-87	20-Oct-87	NA	NA	27-Oct-87	8
002	GW-34	VOC	19-Oct-87	20-Oct-87	NA	NA	27-Oct-87	8
003	GW-35	VOC	19-Oct-87	20-Oct-87	NA	NA	27-Oct-87	8
004	GW-36	VOC	19-Oct-87	20-Oct-87	NA	NA	27-Oct-87	8
005	GW-37	VOC	19-Oct-87	20-Oct-87	NA	NA	27-Oct-87	8
001	GW-33	VOC CONF.	19-Oct-87	20-Oct-87	NA	NA	30-Oct-87	11
002	GW-34	VOC CONF.	19-Oct-87	20-Oct-87	NA	NA	30-Oct-87	11
003	GW-35	VOC CONF.	19-Oct-87	20-Oct-87	NA	NA	30-Oct-87	11
004	GW-36	VOC CONF.	19-Oct-87	20-Oct-87	NA	NA	30-Oct-87	11
005	GW-37	VOC CONF.	19-Oct-87	20-Oct-87	NA	NA	30-Oct-87	11
001	GW-33	BNA	19-Oct-87	20-Oct-87	26-Oct-87	7	04-Nov-87	9
002	GW-34	BNA	19-Oct-87	20-Oct-87	26-Oct-87	7	04-Nov-87	9
003	GW-35	BNA	19-Oct-87	20-Oct-87	26-Oct-87	7	04-Nov-87	9
004	GW-36	BNA	19-Oct-87	20-Oct-87	26-Oct-87	7	04-Nov-87	9
005	GW-37	BNA	19-Oct-87	20-Oct-87	26-Oct-87	7	04-Nov-87	9
001	GW-33	ALK.	19-Oct-87	20-Oct-87	NA	NA	26-Oct-87	7
002	GW-34	ALK.	19-Oct-87	20-Oct-87	NA	NA	26-Oct-87	7
003	GW-35	ALK.	19-Oct-87	20-Oct-87	NA	NA	26-Oct-87	7
004	GW-36	ALK.	19-Oct-87	20-Oct-87	NA	NA	26-Oct-87	7
005	GW-37	ALK.	19-Oct-87	20-Oct-87	NA	NA	26-Oct-87	7
001	GW-33	ANIONS	19-Oct-87	20-Oct-87	NA	NA	20-Oct-87	1
002	GW-34	[illegible]	19-Oct-87	20-Oct-87	NA	NA	20-Oct-87	1
003	GW-35	ANIONS	19-Oct-87	20-Oct-87	NA	NA	20-Oct-87	1
004	GW-36	ANIONS	19-Oct-87	20-Oct-87	NA	NA	20-Oct-87	1
005	GW-37	ANIONS	19-Oct-87	20-Oct-87	NA	NA	20-Oct-87	1
001	GW-33	As,Hg,Se	19-Oct-87	20-Oct-87	NA	NA	12-Nov-87	24
002	GW-34	As,Hg,Se	19-Oct-87	20-Oct-87	NA	NA	12-Nov-87	24
003	GW-35	As,Hg,Se	19-Oct-87	20-Oct-87	NA	NA	12-Nov-87	24
004	GW-36	As,Hg,Se	19-Oct-87	20-Oct-87	NA	NA	12-Nov-87	24
005	GW-37	As,Hg,Se	19-Oct-87	20-Oct-87	NA	NA	12-Nov-87	24
001	GW-33	TDS	19-Oct-87	20-Oct-87	NA	NA	24-Oct-87	5
002	GW-34	TDS	19-Oct-87	20-Oct-87	NA	NA	24-Oct-87	5
003	GW-35	TDS	19-Oct-87	20-Oct-87	NA	NA	24-Oct-87	5
004	GW-36	TDS	19-Oct-87	20-Oct-87	NA	NA	24-Oct-87	5
005	GW-37	TDS	19-Oct-87	20-Oct-87	NA	NA	24-Oct-87	5
001	GW-33	P. hydro.	19-Oct-87	20-Oct-87	NA	NA	22-Oct-87	3
002	GW-34	P. hydro.	19-Oct-87	20-Oct-87	NA	NA	22-Oct-87	3
003	GW-35	P. hydro.	19-Oct-87	20-Oct-87	NA	NA	22-Oct-87	3
004	GW-36	P. hydro.	19-Oct-87	20-Oct-87	NA	NA	22-Oct-87	3
005	GW-37	P. hydro.	19-Oct-87	20-Oct-87	NA	NA	22-Oct-87	3
001	GW-33	ICAP Scan	19-Oct-87	20-Oct-87	NA	NA	14-Nov-87	26
002	GW-34	ICAP Scan	19-Oct-87	20-Oct-87	NA	NA	14-Nov-87	26
003	GW-35	ICAP Scan	19-Oct-87	20-Oct-87	NA	NA	14-Nov-87	26
004	GW-36	ICAP Scan	19-Oct-87	20-Oct-87	NA	NA	14-Nov-87	26
005	GW-37	ICAP Scan	19-Oct-87	20-Oct-87	NA	NA	14-Nov-87	26

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LABORATORY REPORT

FOR
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

JOB #: U-9793, (541.002)

RE:

SAMPLE DATE: 1/4, 5/89

P.O. NO.:

DATE RECEIVED: 1/6/89

SAMPLED BY: Client

SAMPLE TYPE: Water

DELIVERED BY: Federal Express

E & E Lab # 88:	33405	33406	33407	33408	Method Blank
Client Sample ID:	GW-1	GW-2	GW-3	GW-4	
Results in: mg/L unless noted					
Total Thallium	<0.001	<0.001	<0.001	0.0014*	<0.001
Dissolved Thallium	<0.001	<0.001	<0.001	<0.001	<0.001

* Note sample had a pH = 4 instead of a pH of <2.

Analytical References: "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, Third Edition, U.S. EPA, 1986.

Supervising Analyst: Gary Hahn /kk

Date: 1/9/89

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LABORATORY REPORT

QUALITY CONTROL FOR PRECISION RESULTS OF ANALYSIS OF REPLICATE ANALYSES OF WATER SAMPLES

U-9793

(mg/L)

Parameter	E & E Laboratory No. 88-33408	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Total Thallium		0.0014	0.0014	0
Dissolved Thallium		<0.001	<0.001	- -

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LABORATORY REPORT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

U-9793

Parameter	E & E Laboratory No. 88-33408	Original Value	Amount Added	Amount Determined	Percent Recovery
	(mg/L)				
Total Thallium		0.0014	0.05	0.046	89
Dissolved Thallium		<0.001	0.05	0.049	98

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WATER AND SOIL SAMPLE TRACKING OF ANALYSES

REQUIRING HOLDING TIMES

JOB	SAMPLE NUMBER	SAMPLE DATE	GC/MS VOA (14) DEAD	GC/MS VOA (14) ANAL	GC VOA (14) DEAD	GC VOA (14) ANAL
541.001	28144	08/31/88	09/14	09/09	NR	NR
	28145	08/31/88	09/14	09/09	NR	NR
	28146	08/31/88	09/14	09/14	NR	NR
	28147	08/31/88	09/14	09/09	NR	NR
	28148	08/31/88	09/14	09/08	NR	NR
	28149	08/31/88	09/14	09/09	NR	NR
	28150	08/31/88	09/14	09/14	NR	NR
	28151	08/31/88	09/14	09/14	NR	NR
	28152	08/31/88	09/14	09/14	NR	NR
	28153	08/31/88	09/14	09/14	NR	NR
	28154	08/31/88	09/14	09/14	NR	NR
	28155	08/31/88	09/14	09/14	NR	NR
	28156	08/31/88	09/14	09/12	NR	NR
	28157	08/31/88	09/14	09/12	NR	NR
	28158	08/31/88	09/14	09/14	NR	NR
	28159	08/31/88	09/14	09/13	NR	NR
	28160	08/31/88	09/14	09/13	NR	NR
	28161	08/31/88	09/14	09/13	NR	NR
	28162	08/31/88	09/14	09/13	NR	NR
	28163	08/31/88	09/14	09/13	NR	NR
	28164	08/31/88	09/14	09/14	NR	NR
	28165	08/31/88	09/14	09/14	NR	NR
	28166	08/31/88	09/14	09/14	NR	NR
	28167	08/31/88	09/14	09/14	NR	NR
	28168	08/31/88	09/14	09/13	NR	NR
	28169	08/31/88	09/14	09/13	NR	NR
	28170	08/31/88	09/14	09/13	NR	NR
	28171	09/01/88	NR	NR	09/15	09/08
	28172	09/02/88	NR	NR	09/16	09/08
	28173	09/01/88	NR	NR	09/15	09/08
	28174	09/02/88	NR	NR	09/16	09/08
	28175	09/02/88	NR	NR	09/16	09/08
	28176	09/02/88	NR	NR	09/16	09/08

DEAD: Date sample holding time expires.
EXTR: Date sample was extracted.
ANAL: Date sample was analyzed.
NR: Analysis not requested.

SAMPLE IDENTIFICATION
CROSS-REFERENCE

U-8892

Laboratory Number 88-	Field Number	Field Location
28144	FSA-1	FT1-FSA-1
28145	FSA-2	FT1-FSA-2
28146	FSA-3	FT1-FSA-3
28147	FSA-4	FT1-FSA-4
28148	FSB-1	FT1-FSB-1
28149	FSB-2	FT1-FSB-2
28150	FSB-3	FT1-FSB-3
28151	FSC-1	FT1-FSC-1
28152	FSC-2	FT1-FSC-2
28153	FSC-3	FT1-FSC-3
28154	FSD-1	FT1-FSD-1
28155	FSD-2	FT1-FSD-2
28156	FSD-3	FT1-FSD-3

SAMPLE IDENTIFICATION
CROSS-REFERENCE

U-8892.1

Laboratory Number 88-	Field Number	Field Location
28157	FSE-1	FT1-FSE-1
28158	FSE-2	FT1-FSE-2
28159	FSE-3	FT1-FSE-3
28160	FSF-1	FT1-FSF-1
28161	FSF-2	FT1-FSF-2
28162	FSF-3	FT1-FSF-3
28163	FSG-1	FT1-FSG-1
28164	FSG-2	FT1-FSG-2
28165	FSG-3	FT1-FSG-3
28166	FSH-1	FT1-FSH-1
28167	FSH-2	FT1-FSH-2
28168	FSH-3	FT1-FSH-3
28169	FSH-4	FT1-FSH-4

SAMPLE IDENTIFICATION
CROSS-REFERENCE

U-8892.2

Laboratory Number 88-	Field Number	Field Location
28170	FSI-1	FT1-FSI-1
28171	GW-1	D-5-GW-1
28172	GW-2	D-5-GW-2
28173	GW-3	D-5-GW-3
28174	GW-4	D-5-GW-4
28175	GW-5	D-5-GW-5
28176	GW-6	D-5-GW-6

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LABORATORY REPORT

FOR

SAIC - HANCOCK FIELD

U-8892.3

Job No.: U-8892, 541.001			RE:			
Sample Date: 8/31/88			P.O. No.:			
Date Received: 9/6/88			Sampled By: SAIC			
Sample Type: Soil			Delivered By: Federal Express			
E & E Lab. No. 88-	28144	28145	28146	28147	28148	28149
Customer No.						
Sample Identity	FSA-1	FSA-2	FSA-3	FSA-4	FSB-1	FSB-2
	Results in: % unless noted					
Solids, %	92	84	77	77	81	78

Analytical References:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, Third Edition, U.S. EPA, 1986.

Supervising Analyst: Gary Hahn/mlm

Date: 9-29-88

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LABORATORY REPORT

FOR

SAIC - HANCOCK FIELD

U-8892.4

Job No.: U-8892, 541.001			RE:			
Sample Date: 8/31/88			P.O. No.:			
Date Received: 9/6/88			Sampled By: SAIC			
Sample Type: Soil			Delivered By: Federal Express			
E & E Lab. No. 88-	28150	28151	28152	28153	28154	28155
Customer No.						
Sample Identity	FSB-3	FSC-1	FSC-2	FSC-3	FSD-1	FSD-2
	Results in: % unless noted					
Solids, %	75	85	75	74	79	82

Analytical References:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, Third Edition, U.S. EPA, 1986.

Supervising Analyst: Gary Hahlman

Date: 9/29/88

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LABORATORY REPORT

FOR

SAIC - HANCOCK FIELD

U-8892.5

Job No.: U-8892, 541.001			RE:			
Sample Date: 8/31/88			P.O. No.:			
Date Received: 9/6/88			Sampled By: SAIC			
Sample Type: Soil			Delivered By: Federal Express			
E & E Lab. No. 88-	28156	28157	28158	28159	28160	28161
Customer No.						
Sample Identity	FSD-3	FSE-1	FSE-2	FSE-3	FSF-1	FSF-2
	Results in: % unless noted					
Solids, %	80	83	87	78	85	85

Analytical References:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, Third Edition, U.S. EPA, 1986.

Supervising Analyst: Gary Hahn/acm

Date: 9/29/88

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LABORATORY REPORT

FOR

SAIC - HANCOCK FIELD

U-8892.6

Job No.: U-8892, 541.001			RE:			
Sample Date: 8/31/88			P.O. No.:			
Date Received: 9/6/88			Sampled By: SAIC			
Sample Type: Soil			Delivered By: Federal Express			
E & E Lab. No. 88-	28162	28163	28164	28165	28166	28167
Customer No.						
Sample Identity	FSF-3	FSG-1	FSG-2	FSG-3	FSH-1	FSH-2
	Results in: % unless noted					
Solids, %	75	83	86	75	74	74

Analytical References:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, Third Edition, U.S. EPA, 1986.

Supervising Analyst: Gary Hahn[?]

Date: 9/29/88

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LABORATORY REPORT

FOR

SAIC - HANCOCK FIELD

U-8892.7

Job No.: U-8892, 541.001			RE:			
Sample Date: 8/31/88			P.O. No.:			
Date Received: 9/6/88			Sampled By: SAIC			
Sample Type: Soil			Delivered By: Federal Express			
E & E Lab. No. 88-	28168	28169	28170			
Customer No.						
Sample Identity	FSH-3	FSH-4	FSI-1			
	Results in: % unless noted					
Solids, %	74	73	61			

Analytical References:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, Third Edition, U.S. EPA, 1986.

Supervising Analyst: Gary Hahn Imann

Date: 9/29/88

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QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOIL SAMPLES

U-8892.8

Parameter	E & E Laboratory No. 88-	(%) Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Solids	28153	74	75	1.3
	28163	83	83	0
	28170	61	62	1.6

ECOLOGY AND ENVIRONMENT'S, INC.
A N A L Y T I C A L   S E R V I C E S   C E N T E R

RESULTS OF WATER ANALYSIS FOR PRIORITY POLLUTANT
PURGEABLE AROMATIC COMPOUNDS BY GC

(all results in ug/L)

U-8892.9

	E & E Lab. No. 88-	28171	28172	28173	28174	
Compound	Sample Identity	GW-1	GW-2	GW-3	GW-4	
Benzene		2.1(0.29)†	0.70 U	0.70 U**	0.70 U**	
Chlorobenzene		1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene		2.0 U	2.0 U	2.0 U	2.0 U	
1,3-Dichlorobenzene		2.0 U	2.0 U	2.0 U	2.0 U	
1,4-Dichlorobenzene		0.50 U	0.50 U	0.50 U	0.50 U	
Ethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	
Toluene		1.0 U	1.0 U	1.0 U	1.0 U	
Xylene (total)		2.0 U	2.0 U	2.0 U	2.0 U	

Explanation of data flags:
U - Analyte tested for and not found at this level
J - Estimated value; less than detection limit
B - Analyte also found in associated blank
E - Estimated value; above calibration range
* - Compound present below CRDL but reported at the CRDL
† - Value in parentheses is confirmation value.
** - The following results for benzene were obtained on the primary column:
sample #28173 - 0.93 ug/L
sample #28174 - 1.6 ug/L
We could not positively confirm these values on a second column due to suspected headspace problems or low instrument response. Therefore, the results are reported as non-detected.

ECOLOGY AND ENVIRONMENT'S, INC.
A N A L Y T I C A L   S E R V I C E S   C E N T E R

RESULTS OF WATER ANALYSIS FOR PRIORITY POLLUTANT
PURGEABLE AROMATIC COMPOUNDS BY GC

(all results in ug/L)

U-8892.10

Compound	E & E Lab. No. 88-	28175	28176	Method Blank		
	Sample Identity	GW-5	GW-6			
Benzene		0.70 U*	0.70 U	0.70 U		
Chlorobenzene		1.0 U	1.0 U	1.0 U		
1,2-Dichlorobenzene		2.0 U	2.0 U	2.0 U		
1,3-Dichlorobenzene		2.0 U	2.0 U	2.0 U		
1,4-Dichlorobenzene		0.50 U	0.50 U	0.50 U		
Ethylbenzene		1.0 U	1.0 U	1.0 U		
Toluene		1.0 U	1.0 U	1.0 U		
Xylene (total)		2.0 U	2.0 U	2.0 U		

Explanation of data flags:
U - Analyte tested for and not found at this level
J - Estimated value; less than detection limit
B - Analyte also found in associated blank
E - Estimated value; above calibration range
* - Benzene value of 1.8 ug/L was obtained on the primary column. We could not positively confirm this value on a second column due to suspected headspace problems or low instrument response. Therefore, the result is reported as non-detected.

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF WATER MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)
(Sample #28175)

U-8892.11

Compound	Original Result	Amount Added	Amount Determined		Percent Recovery		RPD
			MS	MSD	MS	MSD	
chlorobenzene	<1.0	20	16	15	80	75	6.5
1,2-Dichlorobenzene	<2.0	20	17	17	85	85	0
1,3-Dichlorobenzene	<2.0	20	17	17	85	85	0
1,4-Dichlorobenzene	<0.50	20	18	17	90	85	5.7
Benzene	<0.70	20	16	14	80	70	13
toluene	<1.0	20	17	15	85	75	13
ethyl benzene	<1.0	20	18	17	90	85	5.7

The QC results are within the laboratory acceptance limits.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF SOIL ANALYSIS FOR VOLATILE
ORGANIC COMPOUNDS BY GC/MS

(all results in mg/kg dry weight)

U-8892.12

Compound	E & E Lab. No. 88-	28144	28145	28146	28147	28148
	Sample Identity	FSA-1	FSA-2	FSA-3	FSA-4	FSB-1
Acetone		0.013 B	0.016 B	0.012 U	0.012 U	0.012 U
Benzene		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Bromodichloromethane		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Bromoform		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Bromomethane		0.010 U	0.011 U	0.012 U	0.012 U	0.012 U
2-Butanone		0.010 U	0.011 U	0.012 U	0.012 U	0.012 U
Carbon Disulfide		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Carbon Tetrachloride		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Chlorobenzene		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Chloroethane		0.010 U	0.011 U	0.012 U	0.012 U	0.012 U
2-Chloroethyl Vinyl Ether		0.010 U	0.011 U	0.012 U	0.012 U	0.012 U
Chloroform		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Chloromethane		0.010 U	0.011 U	0.012 U	0.012 U	0.012 U
Dibromochloromethane		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
1,1-Dichloroethane		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
1,2-Dichloroethane		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
1,1-Dichloroethene		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
trans-1,2-Dichloroethene		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
1,2-Dichloropropane		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
cis-1,3-Dichloropropene		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
trans-1,3-Dichloropropene		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Ethylbenzene		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Methylene Chloride		0.005 U*B	0.012 B	0.006 U*B	0.006 U*B	0.006 U
4-Methyl-2-Pentanone		0.010 U	0.011 U	0.012 U	0.012 U	0.012 U
1,1,2,2-Tetrachloroethane		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Tetrachloroethene		0.005 U	0.006 U	0.006 U*	0.006 U	0.006 U
Toluene		0.005 U*	0.006 U*	0.006 U*	0.006 U*	0.006 U
1,1,1-Trichloroethane		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
1,1,2-Trichloroethane		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Trichloroethene		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Trichlorofluoromethane		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
Vinyl Chloride		0.010 U	0.011 U	0.012 U	0.012 U	0.012 U
Xylene (total)		0.005 U	0.006 U	0.006 U	0.006 U	0.006 U
2-Hexanone		0.010 U	0.011 U	0.012 U	0.012 U	0.012 U

Explanation of data flags:
- U - Analyte tested for and not found at this level
- J - Estimated value; less than detection limit
- B - Analtye also found in associated blank
- E - Estimated value; above calibration range
- * Compound present below CRDL, but reported at CRDL

ECOLOGY AND ENVIRONMENT, INC.
A N A L Y T I C A L   S E R V I C E S   C E N T E R

RESULTS OF SOIL ANALYSIS FOR VOLATILE
ORGANIC COMPOUNDS BY GC/MS

(all results in mg/kg dry weight)

U-8892.13

Compound	E & E Lab. No. 88-	28149	28150	28151	28152	28153
	Sample Identity	FSB-2	FSB-3	FSC-1	FSC-2	FSC-3
Acetone		0.012 U*B	0.013 U*B	0.011 U*B	0.015 B	0.012U*B
Benzene		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Bromodichloromethane		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Bromoform		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Bromomethane		0.012 U	0.013 U	0.011 U	0.014 U	0.012 U
2-Butanone		0.012 U	0.013 U	0.011 U	0.014 U	0.012 U
Carbon Disulfide		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Carbon Tetrachloride		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Chlorobenzene		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Chloroethane		0.012 U	0.013 U	0.011 U	0.014 U	0.012 U
2-Chloroethyl Vinyl Ether		0.012 U	0.013 U	0.011 U	0.014 U	0.012 U
Chloroform		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Chloromethane		0.012 U	0.013 U	0.011 U	0.014 U	0.012 U
Dibromochloromethane		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
1,1-Dichloroethane		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
1,2-Dichloroethane		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
1,1-Dichloroethene		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
trans-1,2-Dichloroethene		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
1,2-Dichloropropane		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
cis-1,3-Dichloropropene		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
trans-1,3-Dichloropropene		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Ethylbenzene		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Methylene Chloride		0.006 U	0.067 B	0.054 B	0.056 B	0.006U*B
4-Methyl-2-Pentanone		0.012 U	0.013 U	0.011 U	0.014 U	0.012 U
1,1,2,2-Tetrachloroethane		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Tetrachloroethene		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Toluene		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
1,1,1-Trichloroethane		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
1,1,2-Trichloroethane		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Trichloroethene		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Trichlorofluoromethane		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
Vinyl Chloride		0.012 U	0.013 U	0.011 U	0.014 U	0.012 U
Xylene (total)		0.006 U	0.006 U	0.006 U	0.007 U	0.006 U
2-Hexanone		0.012 U	0.013 U	0.011 U	0.014 U	0.012 U

Explanation of data flags:
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* Compound present below CRDL, but reported at CRDL

ECOLOGY AND ENVIRONMENT, INC.
A N A L Y T I C A L   S E R V I C E S   C E N T E R

RESULTS OF SOIL ANALYSIS FOR VOLATILE
ORGANIC COMPOUNDS BY GC/MS

(all results in mg/kg dry weight)

U-8892.14

Compound	E & E Lab. No. 88-	28154	28155	28156	28157	28158
	Sample Identity	FSD-1	FSD-2	FSD-3	FSE-1	FSE-2
Acetone		0.012 U*B	0.012 U*B	0.022 B	0.011 U	0.011U*B
Benzene		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Bromodichloromethane		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Bromoform		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Bromomethane		0.012 U	0.012 U	0.013 U	0.011 U	0.011 U
2-Butanone		0.012 U	0.012 U	0.013 U	0.011 U	0.011 U
Carbon Disulfide		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Carbon Tetrachloride		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Chlorobenzene		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Chloroethane		0.012 U	0.012 U	0.013 U	0.011 U	0.011 U
2-Chloroethyl Vinyl Ether		0.012 U	0.012 U	0.013 U	0.011 U	0.011 U
Chloroform		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Chloromethane		0.012 U	0.012 U	0.013 U	0.013 U	0.011 U
Dibromochloromethane		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
1,1-Dichloroethane		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
1,2-Dichloroethane		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
1,1-Dichloroethene		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
trans-1,2-Dichloroethene		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
1,2-Dichloropropane		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
cis-1,3-Dichloropropene		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
trans-1,3-Dichloropropene		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Ethylbenzene		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Methylene Chloride		0.006 U*B	0.038 B	0.006 U*B	0.006 U*B	0.015 B
4-Methyl-2-Pentanone		0.012 U	0.012 U	0.013 U	0.013 U	0.011 U
1,1,2,2-Tetrachloroethane		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Tetrachloroethene		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Toluene		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
1,1,1-Trichloroethane		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
1,1,2-Trichloroethane		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Trichloroethene		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Trichlorofluoromethane		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
Vinyl Chloride		0.012 U	0.012 U	0.013 U	0.011 U	0.011 U
Xylene (total)		0.006 U	0.006 U	0.006 U	0.006 U	0.005 U
2-Hexanone		0.012 U	0.012 U	0.013 U	0.011 U	0.011 U

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ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF SOIL ANALYSIS FOR VOLATILE
ORGANIC COMPOUNDS BY GC/MS

(all results in mg/kg dry weight)

U-8892.15

Compound	E & E Lab. No. 88-	28159	28160	28161	28162	28163
	Sample Identity	FSE-3	FSF-1	FSF-2	FSF-3	FSG-1
Acetone		0.012 U*B	0.011 U*B	0.011 U*B	0.021 B	0.021 B
Benzene		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Bromodichloromethane		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Bromoform		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Bromomethane		0.012 U	0.011 U	0.011 U	0.013 U	0.012 U
2-Butanone		0.012 U	0.011 U	0.011 U	0.013 U*	0.012 U
Carbon Disulfide		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Carbon Tetrachloride		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Chlorobenzene		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Chloroethane		0.012 U	0.011 U	0.011 U	0.013 U	0.012 U
2-Chloroethyl Vinyl Ether		0.012 U	0.011 U	0.011 U	0.013 U	0.012 U
Chloroform		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Chloromethane		0.012 U	0.011 U	0.011 U	0.013 U	0.012 U
Dibromochloromethane		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
1,1-Dichloroethane		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
1,2-Dichloroethane		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
1,1-Dichloroethene		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
trans-1,2-Dichloroethene		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
1,2-Dichloropropane		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
cis-1,3-Dichloropropene		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
trans-1,3-Dichloropropene		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Ethylbenzene		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Methylene Chloride		0.008 B	0.016 B	0.005 U*B	0.007 U*B	0.006 *B
4-Methyl-2-Pentanone		0.012 U	0.011 U	0.011 U	0.013 U	0.012 U
1,1,2,2-Tetrachloroethane		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Tetrachloroethene		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Toluene		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
1,1,1-Trichloroethane		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
1,1,2-Trichloroethane		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Trichloroethene		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Trichlorofluoromethane		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
Vinyl Chloride		0.012 U	0.011 U	0.011 U	0.013 U	0.012 U
Xylene (total)		0.006 U	0.006 U	0.005 U	0.007 U	0.006 U
2-Hexanone		0.012 U	0.011 U	0.011 U	0.013 U	0.012 U

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ECOLOGY AND ENVIRONMENT, INC.
A N A L Y T I C A L   S E R V I C E S   C E N T E R

RESULTS OF SOIL ANALYSIS FOR VOLATILE
ORGANIC COMPOUNDS BY GC/MS

(all results in mg/kg dry weight)

U-8892.16

Compound	E & E Lab. No. 88-	28164	28165	28166	28167	28168
	Sample Identity	FSG-2	FSG-3	FSH-1	FSH-2	FSH-3
Acetone		0.011 U*B	0.012 U*B	0.013 U*B	0.013 U	0.013
Benzene		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Bromodichloromethane		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Bromoform		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Bromomethane		0.011 U	0.012 U	0.013 U	0.013 U	0.013 U
2-Butanone		0.011 U	0.012 U	0.013 U	0.013 U	0.013 U
Carbon Disulfide		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Carbon Tetrachloride		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Chlorobenzene		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Chloroethane		0.011 U	0.012 U	0.013 U	0.013 U	0.013 U
2-Chloroethyl Vinyl Ether		0.011 U	0.012 U	0.013 U	0.013 U	0.013 U
Chloroform		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Chloromethane		0.011 U	0.012 U	0.013 U	0.013 U	0.013 U
Dibromochloromethane		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
1,1-Dichloroethane		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
1,2-Dichloroethane		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
1,1-Dichloroethene		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
trans-1,2-Dichloroethene		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
1,2-Dichloropropane		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
cis-1,3-Dichloropropene		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
trans-1,3-Dichloropropene		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Ethylbenzene		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Methylene Chloride		0.036 B	0.054 B	0.012 B	0.049 B	0.007U*B
4-Methyl-2-Pentanone		0.011 U	0.012 U	0.013 U	0.013 U	0.013 U
1,1,2,2-Tetrachloroethane		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Tetrachloroethene		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Toluene		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
1,1,1-Trichloroethane		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
1,1,2-Trichloroethane		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Trichloroethene		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Trichlorofluoromethane		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
Vinyl Chloride		0.011 U	0.012 U	0.013 U	0.013 U	0.013 U
Xylene (total)		0.006 U	0.006 U	0.006 U	0.006 U	0.007 U
2-Hexanone		0.011 U	0.012 U	0.013 U	0.013 U	0.013 U

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ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF SOIL ANALYSIS FOR VOLATILE
ORGANIC COMPOUNDS BY GC/MS

(all results in mg/kg dry weight)

U-8892.17

Compound	E & E Lab. No. 88-	28169	28170			
	Sample Identity	FSH-4	FSI-1			
Acetone		0.013 U*B	0.031 B			
Benzene		0.007 U	0.008 U			
Bromodichloromethane		0.007 U	0.008 U			
Bromoform		0.007 U	0.008 U			
Bromomethane		0.013 U	0.015 U			
2-Butanone		0.013 U	0.015 U			
Carbon Disulfide		0.007 U	0.008 U			
Carbon Tetrachloride		0.007 U	0.008 U			
Chlorobenzene		0.007 U	0.008 U			
Chloroethane		0.013 U	0.015 U			
2-Chloroethyl Vinyl Ether		0.013 U	0.015 U			
Chloroform		0.007 U	0.008 U			
Chloromethane		0.013 U	0.015 U			
Dibromochloromethane		0.007 U	0.008 U			
1,1-Dichloroethane		0.007 U	0.008 U			
1,2-Dichloroethane		0.007 U	0.008 U			
1,1-Dichloroethene		0.007 U	0.008 U			
trans-1,2-Dichloroethene		0.007 U	0.008 U			
1,2-Dichloropropane		0.007 U	0.008 U			
cis-1,3-Dichloropropene		0.007 U	0.008 U			
trans-1,3-Dichloropropene		0.007 U	0.008 U			
Ethylbenzene		0.007 U	0.008 U			
Methylene Chloride		0.007 U*B	0.008 U*B			
4-Methyl-2-Pentanone		0.013 U	0.015 U			
1,1,2,2-Tetrachloroethane		0.007 U	0.008 U			
Tetrachloroethene		0.007 U	0.008 U			
Toluene		0.007 U	0.008 U			
1,1,1-Trichloroethane		0.007 U	0.008 U			
1,1,2-Trichloroethane		0.007 U	0.008 U			
Trichloroethene		0.007 U	0.008 U			
Trichlorofluoromethane		0.007 U	0.008 U			
Vinyl Chloride		0.013 U	0.015 U			
Xylene (total)		0.007 U	0.008 U			
2-Hexanone		0.013 U	0.015 U			

Explanation of data flags:
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ECOLOGY AND ENVIRONMENT, INC.
A N A L Y T I C A L   S E R V I C E S   C E N T E R

RESULTS OF SOIL ANALYSIS FOR VOLATILE
ORGANIC COMPOUNDS BY GC/MS

(all results in mg/kg dry weight)

U-8892.18

Compound	E & E Lab. No. 88-	Method Blank	Method Blank	Method Blank	Method Blank	Method Blank
	Sample Identity	9/9/88	9/12/88	9/13/88	9/14/88	9/14/88
Acetone		0.016	0.010 U*	0.012	0.010 U	0.010 U*
Benzene		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromodichloromethane		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromoform		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2-Butanone		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Carbon Disulfide		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroethane		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2-Chloroethyl Vinyl Ether		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chloroform		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloromethane		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Dibromochloromethane		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,3-Dichloropropene		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2- Hexanone		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Methylene Chloride		0.005 U*	0.005 U*	0.007	0.005 U*	0.039
4-Methyl-2-Pentanone		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
1,1,2,2-Tetrachloroethane		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,1-Trichloroethane		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichlorofluoromethane		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Xylene (total)		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

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QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

U-8892.19

Compound	E & E Laboratory No. 88-	Amount Added (ng)	Amount Determined (ng)	Percent Recovery
1,2-dichloroethane-D4	28144	250	299	120
	28145	250	286	114
	28146	250	260	104
	28147	250	278	111
	28148	250	254	102
	28149	250	290	116
	28150	250	236	95
toluene-D8	28144	250	286	114
	28145	250	269	108
	28146	250	253	101
	28147	250	268	107
	28148	250	244	98
	28149	250	289	115
	28150	250	256	102
4-bromofluorobenzene	28144	250	276	110
	28145	250	271	108
	28146	250	218	87
	28147	250	259	104
	28148	250	226	90
	28149	250	272	109
	28150	250	232	93

These recoveries are acceptable to EPA Contract Lab Program (CLP) guidelines.

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

U-8892.20

Compound	E & E Laboratory No. 88-	Amount Added (ng)	Amount Determined (ng)	Percent Recovery
1,2-dichloroethane-D4	28151	250	222	89
	28152	250	246	98
	28153	250	250	100
	28154	250	256	102
	28155	250	232	93
	28156	250	252	101
	28157	250	352	141 H
	28158	250	243	97
toluene-D8	28151	250	265	106
	28152	250	222	89
	28153	250	257	103
	28154	250	251	101
	28155	250	232	93
	28156	250	235	94
	28157	250	258	103
	28158	250	238	95
4-bromofluorobenzene	28151	250	249	99
	28152	250	210	84
	28153	250	208	83
	28154	250	227	91
	28155	250	215	86
	28156	250	225	90
	28157	250	272	109
	28158	250	228	91

With the exception of the value flagged with an "H", these recoveries are acceptable to EPA Contract Lab Program (CLP) guidelines. Sample 28157 was analyzed twice, surrogates were outside EPACLP guidelines for both analyses, indicating a matrix effect.

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

U-8892.21

Compound	E & E Laboratory No. 88-	Amount Added (ng)	Amount Determined (ng)	Percent Recovery
1,2-dichloroethane-D4	28159	250	221	88
	28160	250	242	97
	28161	250	207	83
	28162	250	222	89
	28163	250	241	96
	28164	250	237	95
	28165	250	243	97
	28166	250	242	97
toluene-D8	28159	250	224	90
	28160	250	209	83
	28161	250	223	89
	28162	250	258	103
	28163	250	281	112
	28164	250	264	106
	28165	250	243	97
	28166	250	271	108
4-bromofluorobenzene	28159	250	214	86
	28160	250	280	112
	28161	250	203	81
	28162	250	217	87
	28163	250	230	92
	28164	250	243	97
	28165	250	234	93
	28166	250	233	93

These recoveries are acceptable to EPA Contract Lab Program (CLP) guidelines.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

U-8892.22

Compound	E & E Laboratory No. 88-	Amount Added (ng)	Amount Determined (ng)	Percent Recovery
1,2-dichloroethane-D4	28167	250	263	105
	28168	250	267	107
	28169	250	247	99
	28170	250	242	97
toluene-D8	28167	250	283	113
	28168	250	272	109
	28169	250	261	105
	28170	250	268	107
4-bromofluorobenzene	28167	250	243	97
	28168	250	244	98
	28169	250	241	96
	28170	250	218	87

These recoveries are acceptable to EPA Contract Lab Program (CLP) guidelines.

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)
(Sample #28147)

U-8892.23

Compound	(ng) Original Result	Amount Added	Amount Determined MS	Amount Determined MSD	Percent Recovery MS	Percent Recovery MSD	RPD
1,1-Dichloroethene	<25	250	202	208	81	83	2.4
Trichloroethene	<25	250	137	227	55L	91	49H
Chlorobenzene	<25	250	248	250	99	100	1.0
Toluene	<25	250	260	254	104	102	1.9
Benzene	<25	250	181	264	72L	106	38H

With the exception of those flagged values, these recoveries and RPDs are within EPA QC advisory limit for the EPA Contract Laboratory Program. Low recoveries on matrix spike are due to high response of the second internal standard, peak areas were acceptable.

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)
(Sample #28159)

U-8892.24

Compound	(ng) Original Result	(ng) Amount Added	(ng) Amount Determined MS	(ng) Amount Determined MSD	Percent Recovery MS	Percent Recovery MSD	RPD
1,1-Dichloroethene	<25	250	178	209	71	84	17
Trichloroethene	<25	250	262	300	105	120	13
Chlorobenzene	<25	250	219	238	88	95	8
Toluene	<25	250	223	251	89	100	12
Benzene	<25	250	312	320	125	128	2.3

These recoveries and RPDs are within EPA QC advisory limits for the EPA Contract Laboratory Program.

APPENDIX I: CORRESPONDENCE

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233-0001

Henry G. Williams
Commissioner

March 12, 1986

Mr. Edward Repa
SAIC
8400 Westpark Drive
McLean, VA 22102

Dear Mr. Repa:

Please find enclosed Generic Work Plan for Phase II investigations and a list of "technically acceptable" laboratories, which you requested in regard to your studies at Hancock Field, New York.

If you have any questions, please do not hesitate to call me at (518) 457-9538.

Sincerely,

Carl Hoffman

Carl Hoffman, P.E.
Senior Sanitary Engineer
Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste

Enclosure

New York State Department of Environmental Conservation

MEMORANDUM

TO: Jack Ryan
FROM: Larry Bailey
SUBJECT: Technically Acceptable Laboratories
DATE: August 13, 1985

The following is a list of the laboratories that have performed satisfactorily on P.E. samples and add~~ressed any deviations found dur~~ing on- — site audits and have been determined to be "technically acceptable."

ETC-Edison, NJ, in conjunction with Wilson Laboratories, Salina, KS
ERCO-Cambridge, MA
General Testing-Rochester, NY, in conjunction with CompuChem Laboratories, Research Triangle Park, NC
H2M Corp.-Melville, NY
Galson Technical Services-E. Syracuse, NY, in conjunction with O'Brien & Gere Laboratories, Syracuse, NY
Aquatec, Inc.-S. Burlington, VT
NUS Corp.-Pittsburg, PA
Ecology & Environment-Buffalo, NY
IT Corp.-Pittsburg, PA
Recra Research-Buffalo, NY
GCA Corp.-Bedford, MA
IT Corp.-Knoxville, TN
O'Brien & Gere-Syracuse, NY
Versar, Inc.-Springfield, VA
CompuChem Laboratories-Research Triangle Park, NC
NYTest Environmental-Westbury, NY
EA Engineering, Science, & Technology-Sparks, MD
Roy F. Weston, Inc.-West Chester, PA
Environment One Corp.-Schenectady, NY
Hittman Ebasco Associates-Columbia, MD
Friend's Laboratories-Waverly, NY, in conjunction with NYTest Environmental, Westbury, NY
Princeton Aqua Science-Edison, NJ
Chemtech-NY, NY, in conjunction with Envirodyne Engineers, St. Louis, MO
C&S Environmental-Liverpool, NY, in conjunction with Camo Labs, Poughkeepsie, NY
Nanco Labs-Hopewell Junction, NY

RECEIVED
AUG 15 1985
BUREAU OF HAZARDOUS SITE CONTROL
DIVISION OF SOLID AND HAZARDOUS WASTE

LB:lms
cc: Dr. Banks
N. Nosenchuck
J. Rankin
M. Chen ✓
C. Goddard
M. Ferguson
J. Iannotti
D. King
J. Wilson
F. [illegible]
F. Ricotta
W. Demick

Revised: 7/85

EXHIBIT 1

Generic Work Plan

STATE SUPERFUND PROGRAM

Phase II Investigations

The Division of Solid and Hazardous Waste, requires that certain aspects be addressed in any investigative work (Phase II) undertaken to determine the hazardous nature of a site. This document describes generally the minimum amount of work and reporting that must be accomplished by the consultant in performing a Phase II investigation; the requirements by the Division of the consultant in performing a satisfactory Phase II investigation is not limited to the items described herewith, but may include other needs to satisfy unanswered questions on a site-specific basis.

This generic work plan will be divided into five main areas:

1. Geophysical Survey
2. Well Drilling/Development
3. Recommended Well Sampling and Analyses
4. QA/QC Protocols
5. Phase II Report Format

1. Geophysical Survey

The broad considerations are:

a. Location of buried materials

b. Determination of the presence of contaminated plumes

c. Characterization of subsurface conditions

Because of complexities involved in detecting hazardous waste at a given site, with added complications of geologic anomalities, the Department requires that specific geophysical studies be conducted during each investigation. Generally, the goals of a geophysical survey are:

- to minimize the number of drilling sites
- to locate drilling and monitoring wells at representative sites

- to reduce risks associated with drilling into unknown terrain and waste

- to reduce overall project time and costs

- to provide improved accuracy and confidence levels to the project

Some of the specifics that are required to be determined by the geophysical survey are:

- layer thickness and depth of soil and rock formations

- mapping lateral anomaly locations

- determining vertical anomaly depths

- depth to water table

- existence of contamination and/or buried wastes

- mapping contamination and buried waste boundaries and contaminated plumes

- determining vertical extent of buried wastes and contamination

- quantify magnitude of buried wastes or contamination

- determine direction of groundwater flow

- detection of organics floating on the water table

- detection and mapping of contamination or wastes within the unsaturated zone

Table 1 specifies techniques, which have been proven at hazardous waste sites, and their application for various categories of a Phase II investigation. The preferred method must be employed to characterize to the maximum extent possible the subsurface stratigraphy of an inactive hazardous waste site.

<u>The findings of the geophysical survey must be used to enhance the location of wells for obtaining samples, from leachate plumes or affected groundwater regimes. This means that geophysical data must be reduced and the findings used to determine the best locations for wells.</u>

2. <u>Well Drilling</u>

These shall include, but are not limited to:

a. number of wells (nested or single) and located on a map of the site.

b. estimated depth of wells to the nearest foot based on available data.

c. materials needed to properly construct wells, seal annular space and secure wells with a steel protective casing and padlock.

d. split spoon sampling from grade elevation must be done at every 5 feet. A grain size analysis or Atterberg limits for non-cohesive materials or cohesive materials respectively must be done at every change in subsurface lithology, as well as one such analysis in the screened interval. If conditions are such that a mixture of cohesive and non-cohesive materials are encountered, perform only grain size analysis. Hydrometer analysis must also be done if 20 percent of the sample is less than a No. 200 sieve size.

e. Permeability testing of each well. Evacuation of the well for this determination will be accepted.

f. groundwater elevation readings in each well before and after development. These readings must be accomplished for normally recovering wells before the drill rig leaves the site, since if data is unable to show direction of groundwater flow, additional wells should be placed.

   If low yielding wells, requiring greater than 8 hours for recovery, are encountered, then the consultant and sub-contractor must depart the site, after the last well development and return at a later date for its groundwater elevation measurement. It is required that a well must be developed as soon as its recovery is completed and as soon as practically possible before or during the drilling operations of the next well. This process of staggered well development will result in only the last well remaining underdeveloped at the end of the drilling operations. The consultant at this stage will have gathered enough information to aid in determining the next course of action.

g. development of each well.

h. classification of the split spoon samples by a geologist in the field using the N.Y.S.D.O.T. Soil Description Procedure. See Attachment 1.

i. shallow soil samples, if required, may be obtained with a hand auger.

j. The standard operating procedures anticipated to be used in drilling and installation of borings and wells.

It must be noted that in moving from one well to another on-site location for constructing a new well, all drilling equipment must be cleaned of all foreign matter, washed with a detergent, rinsed properly with water, given an acetone wash, then followed with a final hexane wash, in that order, or cleaned of foreign matter and sanitized with a steam cleaner. Any alteration to the method of cleaning is to be determined for each site by New York State Department of Environmental Conservation. Similarly, in conducting split spoon sampling, the split spoon must be cleaned as above after each sample and before introduction in a new bore hole.

It is also required that a HNu detector or OVA analyzer be used to monitor the gases emitted from each split spoon sample as soon as the sampler is opened.

When an OVA analyzer is used, special precautions must be taken in using a filter by which methane concentrations are recorded. Both filtered and unfiltered samples must be taken to show the difference for methane.

Prior to leaving a site, all equipment that was used in constructing the well, i.e., augers, split spoons, tools, accessories and other items such as vehicles and drill rigs must be cleaned as described above.

3. Recommended Well Sampling and Analyses

The Division expects that a minimum of 1 groundwater sample will be taken from each well. The consultant is therefore required to note in the work plan:

a. number of groundwater samples recommended.

b. recommended analysis for each sample, keeping in mind that:

i. if a determination on the type(s) of chemical(s) can be made from a foregoing Phase I study or other sources, then analysis shall be concentrated on those items.

ii. if there is a suspected multiplicity of chemicals, but no determination on their classification can be made, serious consideration will be given in analysing for:

A) total metals

B) identification and quantitation of compounds should be done in accordance with New York State Department of Environmental Conservation's Analytical, Quality Control and Reporting Requirements as adopted from the USEPA Caucus Protocol for the Contract Laboratory Program, with the requirement that all GC/MS peaks greater than 10 percent of the nearest calibrating standard be included in the identification and quantitation.

An analysis for total halogenated compounds (TOX) must also be performed. This is to ensure that no highly soluble halogenated compound was undetected by the GC/MS analysis. The results of the TOX analysis must be quantitively compared to the halide content (mg/l as chlorine) of individual chemicals identified by the comprehensive analysis. If less than 95 percent of the TOX is accounted for, consideration must be given for the presence of highly soluble halogenated chemicals.

In developing and extracting samples from wells, the Division will require that dedicated tubes, hoses, (rubber or tygon unacceptable), bailers including line and other sampling equipment must be provided for each well. Groundwater elevation equipment may be used between wells, provided that after use in each well, the detector is cleaned with a detergent wash, water rinse, acetone rinse and hexane rinse in that order.

4. Quality Assurance/Quality Control

QA/QC protocols for sample integrity from the field to the laboratory, as well as those employed in the laboratory must be submitted by the consultant. Generally, the sampling QA/QC protocols should describe sampling techniques and methods used in ensuring sample integrity, as cleaning of equipment, dedicated samplers, chain-of-custody procedures, sample preservation, experience and capabilities of personnel and other factors associated with obtaining and delivering hazardous waste samples to the laboratory.

A quality assurance document providing for the committment to the implementation of quality assurance and quality control practices applicable to field and laboratory activities of the hazardous waste program must be provided. This document must be in accordance with the NYSDEC, Division of Solid and Hazardous Waste Quality Assurance Program Plan which contain "Guidance for Preparation of Combined Work/Quality Assurance Project Plans for Water Monitoring (OWRS QA-1), U.S. EPA, Washington, D.C., May 1983.

5. Phase II Report Format

Cover:

The report cover shall be in accordance with the sample attached hereto as Attachment 3 and shall be printed on 65lb. Atlantic Pastel uncoated cover, Misty Blue color. The back cover shall be of the same material as that of the front cover.

Title Page:

Indicate: name of project (i.e., "Engineering Investigations at Inactive Hazardous Waste Sites in the State of New York, Phase II Investigations"); the site name, location (i.e., municipality and county) and NYSDEC site number; prepared for (i.e. Division of Solid and Hazardous Waste, New York State Department of Environmental Conservation, 50 Wolf Road, Albany, New York, 12233-0001); prepared by (i.e., contractor's name and address); and date submitted.

Table of Contents:

List all sections and subsections of the Phase II Report.

Section I:

Executive Summary -

Briefly describe the site, Phase II effort, site assessment and HRS score. (Include a portion of the USGS 7.5 minute Quadrangle Sheet 8 1/2" x 11") with site located, name of the quadrangle and the coordinates of the site, identified on it, as well as a sketch map of the site).

Section II:

Purpose -

Describe the goal of the Phase II effort at the specific site.

Section III:

Scope of Work -

Describe the scope of the Phase II effort including, but not necessarily limited to: geophysical studies, boring and monitoring well placement and installation, sampling and sampling station selection (soil, surface water, groundwater and air samples.)

Give reasons for the locations chosen for monitoring wells and sampling stations. Also include details of monitoring well installation and environmental sampling techniques used.

Section IV:

Site History-

A description of waste disposal, operation of the site, change in ownership and significant events such as, boil water notices issued by a health agency, reports of leachate outbreak, fish kills and remedial actions taken should be included.

Section V:

Site Assessment -

i) Description of site topography indicating such items as general slope of the site and proximity to surface waters, private and public wells, commercial buildings, dwellings and sensitive environments.

ii) Description of hydrology of the site, include data from geophysical studies (plots), boring logs, monitoring well data and soil test data. (Depth to groundwater, aquifers of concern, depth of bedrock, soil and bedrock permeabilities, and any unique geological characteristics such as, but not limited to, multiple aquifer systems and karst topography should be noted.)

iii) Describe the observations of the site inspection, e.g., was leachate flow noted, were drums observed and were they full or empty. Assess site contamination. Summarize the results of both past and Phase II sampling programs. Indicate the waste types and quantities on site if known, and the extent of contamination of soil, surface water, groundwater and air. Note when samples were taken and the location of samples on a map or sketch of the site. Include a description of how the QA/QC plan was applied to the site.

Section VI:

Final Application of the Hazard Ranking System - The final application of the HRS must incorporate all information collected in the Phase I and Phase II investigations of the site. This section of the report is to include:

i) Narrative Summary - Limit each narrative summary to one page (DOUBLE SPACED). Use active voice as much as possible and identify actors--that is, say "EPA erected a fence," not "a fence was erected," or "the State filed suit," not "a suit was filed." Be sure to tie the information to the response category/status codes you are assigning the site.

a. Site name (including origin of name).

b. Site location - city, county, and state

c. Size

d. Nature of operations (landfill, recycling, manufacturing, etc.)

e. History of ownership/operations - private, public, bankrupt, permitted (by whom? to do what?) currently operating (how long), closed (how long).

f. Wastes present (types, amounts, in what form, buried, on surface, etc.)

g. Media affected and with what (including source of analytical data)

h. Important demographic information.

i. Important geographic information (nearby surface water, aquifers, wetlands, etc.)

k. Enforcement actions

A typical summary is outlined below. While no single example can cover the variety of conditions at hazardous waste sites, this one illustrates the types of information and form we want.

Name
Location

The ABC/DEF (name) site covers (size) acres in (location, including county). ABC (describe operations) on the site (date), when it purchased the property from DEF (relationship of DEF to the site operation), until (date), when it (describe operations/ownership history).

The companies disposed of about (quantities of waste) of (types of waste) on the site by (describe disposal methods). According to tests conducted by (source of data), (media) are contaminated with (chemicals). The site is (important geographic information). About (population affected) are (affected how).

In (date), (who) filed (describe any legal action). In (date), (who) (describe any cleanup actions).

ii) Portion of USGS quadrangle with site located on it and the name of quadrangle identified as also required in Section I.

iii) Updated HRS Worksheets

All applicable data collected in the Phase I and Phase II investigations will be used to complete these worksheets.

iv) Updated HRS Documentation Records

All applicable data collected in the Phase I and Phase II investigations will be used to complete the HRS Documentation Records. All sources of information supplied in the documentation records must be clearly referenced on the same page where this information is presented. In addition, copies of all documents indicated as a source of information must be supplied. This includes correspondence, sampling and analytical data (even if previously presented in the Phase I report), professional papers and reports. Information based on conversations with knowledgeable individuals must be confirmed in a memorandum or a letter, and a copy included with the HRS Documentation Records. Also, a copy of the site sketch or map indicating the location of samples (as required in Section IV) must also be included in this section.

Updated EPA Form 2070-13 "Potential Hazardous Waste Site, Site Inspection Form," or any revision of such forms shall be used.

NOTE: Information presented on the HRS Documentation Records is to be typed and not handwritten or printed.

Appendix:

All raw data (i.e. geophysical, analytical, etc.) shall be presented in the appendix. This shall be in addition to any reduction of data presented elsewhere in the report.

6. Special Conditions

The consultant is required to observe certain conditions during the conduct of a Phase II investigation. These are:

a. Site visit must be made prior to completion of the work plan for reconnaisance and especially for determining access problems. Those of concern should include: is physical acccess possible, is auxiliary equipment required, can wells be located on or off the site, is off-site access permitted, are easements necessary, etc.

   If during the actual field activities of a Phase II investigation, the consultant should require a tractor to locate the drill rig, or determine that access through an adjacent property is needed and is not mentioned in the work plan, the Department will conclude that a reconnaissance was not done. This attitude will be maintained for any other condition occurring during the field activities, but which should have been addressed during the reconnaissance, nor will associated costs be considered.

b. Name and address of all sub-contractor must be submitted with an itemized list of jobs and charges.

c. The following requirements deal with the construction of overburden and rockwells. These are entitled:

   i. Guidelines for Exploratory Boring, Monitor Well Installation and Documentation of these activities.

   ii. Guidelines for rockwells

d. The attached Oversight Checklist (DSHW personnel) are items that DEC staff ensure will be met during their oversight of the Phase II investigation. The checklist is made a part hereof, and the consultant must at a minimum meet these requirements during his Phase II investigation field activities.

Reference

Geophysical Techniques for Sensing; Bureau of Wastes and Waste Migration; U.S. Environmental Protection Agency, Las Vegas, Nevada. 236pp.

TABLE 1. APPLICATION OF GEOPHYSICAL METHODS TO HAZARDOUS WASTE SITES

Application	Radar	Electromagnetics	Resistivity	Seismic	Metal Detector	Magetometer
Mapping of Geohydrologic Features	1	1	1	1	-	-
Mapping of Conductive Leachates and Contaminant Plumes (ex. Landfills, Acids, Bases)	2	1	-	-	-	-
Location and Boundary Definition and Buried Trenches with Metal	1	1	2	2	2	2
Location and Boundary Definition of Buried Trenches without Metal	1	1	2	2	-	-
Location and Definition (ex. Drums, Ordinance)	2	2	-	-	1	1

1. Primary Method - Indicates the most effective method
2. Secondary Method - Indicates and alternative approach

April 16, 1986

Henry G. Williams
Commissioner

Mr. Thomas D. Sims, Chief
Environmental Planning Division
Department of the Air Force
Regional Civil Engineer, Eastern Reg. (HQAFESC)
526 Title Building
30 Pryor Street
Atlanta, Georgia 30303

Attn of: ROV

Dear Mr. Sims:

Re: Installation Restoration Program, Hancock Field, New York

Thank you for the opportunity to review the Statement of Work (SOW) Phase II Stage 2 enclosed with your letter dated March 4, 1986 to Mr. Walter Demick, P.E., of my staff.

It has substantially addressed and incorporated the previous concerns outlined within our March 5, 1985 letter regarding the Phase II Stage 1 report.

The regional New York State Department of Environmental Conservation's office at Liverpool, has suggested that the considerable development within the area be put into perspective. Specifically, by documenting all investigative activities on a current map which includes recent residential development and proximity to the areas of concern.

Please apprise Mr. Walter Demick regarding field activity scheduling so he may coordinate field oversight.

If you have any questions, please feel free to contact Mr. Walter Demick at (518) 457-9538, or myself at (518) 457-0647.

Sincerely,

Charles N. Goddard

Charles N. Goddard, P.E.
Chief
Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste

Science Applications International Corporation

July 1, 1986

Mr. Carl Hoffman, P.E.
Senior Sanitary Engineer
Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste
New York State Department of
Environmental Conservation
50 Wolf Road
Albany, New York 12233-~~0001~~ 4015

Reference: IRP Phase II, Stage 2, Hancock Field, New York

Dear Mr. Hoffman:

This letter is to confirm a conversation of last week between Ms. Jane Federico of your office and Ms. Judith Burris of USAFOEHL concerning the use of ERG Laboratories of Ann Arbor, Michigan for environmental analyses at Hancock Field. USAFOEHL understands that ERG is acceptable to NYDEC for this project. If this is not correct or you have any questions concerning this matter, please call me at (703) 827-8101.

Sincerely,

Philip A. Spooner

Philip A. Spooner
Project Manager

PAS/sk

cc: Judith Burris - USAFOEHL
Werner Zieger - SAIC

8400 Westpark Drive, McLean, Virginia 22102 (703) 821-4600

City of Syracuse
THOMAS G. YOUNG, MAYOR
DEPARTMENT OF AVIATION

September 9, 1986

Lt. Col. Robert H. Purple
Commander, Combat Support Squadron
New York Air National Guard
Headquarters 174th Tactical
  Fighter Wing
Hancock Field
Syracuse, NY 13211-7099

Dear Colonel Purple:

This letter is to confirm that you are authorized to provide access for commercial contractors for the purpose of sampling surface water and sediment sampling.

As we discussed on the telephone, it is important that any contractor be escorted in a way that controls their movement when they are within security fencing.

The person whom you should contact to arrange for such access is Robert Radway, and he may be reached at 455-1477. We would ask that a day's notice be given for any needed coordination.

Very truly yours,

R.E. Napolitano

Ralph E. Napolitano
Acting Commissioner
of Aviation

REN:kr
cc: Robert Radway, Maintenance
    Department

Hancock International Airport • Syracuse, N.Y. 13212 • (315) 454-3263

Science Applications International Corporation

September 12, 1986

Mr. Carl Hoffman, P.E.
Senior Sanitary Engineer
Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste
New York State Department of
Environmental Conservation
50 Wolf Road
Albany, New York 12233-4015

Reference: IRP Phase II, Stage 2, Hancock Field, New York

Dear Mr. Hoffman:

Enclosed is the Health and Safety Plan for the Stage 2 work at Hancock Field. If you could please discuss any changes NYDEC feels are necessary with Nick DeSalvo of my office, I would appreciate it. Nick can be reached at (703) 821-4696.

Sincerely,

Philip A. Spooner
Project Manager

PS/lb

Enclosure

cc: Judith Burris - USAFOEHL
Nick Desalvo - SAIC

8400 Westpark Drive, McLean, Virginia 22102
(703) 821-4600

APPENDIX J: REFERENCES

APPENDIX J

REFERENCES

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APPENDIX K: RESUMES OF KEY PERSONNEL

J. ERIC GIBSON

EDUCATION

University of Delaware, Bachelor of Science, Geology, (1984)

EXPERIENCE

Mr. Gibson is a geologist with SAIC's Applied Technologies Division, Geotechnical Assessment Section. He has been involved in the implementation of Air Force IRP (Installation Restoration Program) studies at Air Force Bases throughout the country. These studies, which are currently in the confirmation/quantification phase, are intended to determine the degree and extent of environmental degradation resulting from past operations at the Air Force Base. Mr. Gibson's responsibilities include: supervision of the drilling and installation of soil gas and groundwater monitoring wells; sampling of groundwater, surface waters, soils, and stream sediments; analysis of data; assessment of hydrologic conditions; characterization of the local hydrogeology; and preparation of the final reports.

He has also participated in an in-situ bioreclamation research project at a contaminated site located on Kelly Air Force Base, Texas. This research project was intended to enhance the microbial degradation of organic contaminants through the controlled injection of microbe proliferating nutrients. His responsibilities in this remedial action research project consisted of: system operation (control and planning of the pumping and injection rates of both circulated groundwater and microbial nutrients); groundwater sampling; supervision of subcontractor personnel; sampling of contaminated soils obtained by drilling equipment while employing sterile sampling techniques; and field analysis of soil and groundwater chemical parameters.

In addition to these activities, Mr. Gibson has participated in EPA Resource Conservation and Recovery Act (RCRA) Part B Application Completeness Checks. These checks, which were performed on permit applications submitted by various private companies with hazardous waste management facilities, required the evaluation of each application to determine the adequacy of the data provided and, on a preliminary basis, the technical soundness of the document.

Prior to joining SAIC, Mr. Gibson was a geologist with ATEC Associates of Salisbury, Maryland. With this geotechnical engineering firm, Mr. Gibson's responsibilities included the evaluation of driven splitspoon samples to facilitate construction of well logs; the inspection of structural foundations, data interpretation, and report preparation. He assisted in a variety of projects consisting of structural foundation recommendations; determination of the areal extent and volume of proposed borrow pit materials; and potentiometric mapping.

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Also, Mr. Gibson was previously employed by Delmarva Drilling Company of Bridgeville, Delaware. As a member of the drilling group, he assisted with all facets of water well installation and evaluation. His responsibilities included: logging and installation of groundwater producing and monitoring wells; conducting water well pumping and slug tests used in the determination water well and aquifer parameters; recommendations concerning water well location and design and data interpretation.

Mr. Gibson was a research assistant for the Geology Department of the University of Delaware, during the summer of 1984. In this capacity, he assisted in the investigation of the geological and environmental characteristics of a coastal area experiencing rapid erosion in Central Delaware. He was responsible for flowmeter installation; collection of sediment samples; surveying of the coastal zone; determining the location of sediment sources; and preparation of reports.

PROFESSIONAL AFFILIATIONS

National Water Well Association

PUBLICATIONS

Installation Restoration Program Phase II-Confirmation/Quantification, Stage 1, Draft Report for Charleston Air Force Base (Co-authored with E. Repa, et. al.); for U.S. Air Force, OEHL, Brooks AFB, Texas. (1985).

Verified for accuracy by: J Eric Gibson Date: 8/25/86

SAIC

SARA WILLIS HARTWELL

EDUCATION

B.S., Chemistry, Guilford College (1974)

SHORTCOURSES

1978. Column Selection in Gas Chromatography - Supelco, Inc., Bethesda, MD

1979. High Pressure Liquid Chromatography Apparatus Workshop - American Chemical Society Short Course, Philadelphia, PA

1980. Atomic Absorption Spectroscopy Course - Perkin Elmer, Gaithersburg, MD

1982. Polymer Chemistry, Principles and Practice - American Chemical Society Short Course, Blacksburg, VA

1982. Gel Permeation Chromatography - Waters, Inc., Milford, MA

EXPERIENCE

Ms. Hartwell is a Senior Chemist with SAIC's Environmental Technology Group in the Regulatory Compliance Division. She has 12 years of professional experience as an analytical chemist, including sampling techniques and analyses in environmental, biological and industrial systems.

As a Development Chemist with an industrial concern, Ms. Hartwell was involved in problem-solving research on polymers, coatings, adhesives, inks and aluminum. She has extensive experience with gas chromatography, high pressure liquid chromatography, gel permeation chromatography and fourier transform infrared spectroscopy. She served as technical advisor to a manufacturing operation, evaluating materials and process related issues with a wide spectrum of techniques including thermal analysis, rheology and optical microscopy. Ms. Hartwell designed and implemented a database management system for laboratory data, and trained the technical staff in its use. She was responsible for analytical method development, dissemination and implementation, including the selection and installation of appropriate instrumentation.

Ms. Hartwell was Chairman of the Building Safety Committee for 2 years, served on the Complex Safety Committee, and consulted with the company's safety department on chemical issues pertinent to the manufacturing operation.

As a Senior Research Technician in the Department of Environmental Toxicology at the Johns Hopkins University School of Public Health and Hygiene, Ms. Hartwell was the primary analyst on projects concerned with the analysis of phthalate esters, carbonyl sulfide and heavy metals in biological samples. She was responsible for analytical method development, as well as data management,

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using gas chromatography and atomic absorption spectroscopy. She coordinated projects and instrument scheduling in a multi-user setting and taught a training course in the theory and practice of atomic absorption spectroscopy.

As a Laboratory Technician III with the Frederick Cancer Research Center, Ms. Hartwell performed both gas and liquid chromatographic analyses of anti-neoplastic agents in biological systems. She was responsible for the development of the analytical methods, sample handling and data management.

As a Chemist II at the Research Triangle Institute, Ms. Hartwell performed trace metal analyses on animal tissues, aqueous samples, tar residues and plant tissues. Using a wide range of chromatographic techniques, she worked on metabolic studies of testosterone propionate and trichlorocarbanalide in animal tissues and body fluids. Ms. Hartwell identified and quantified components of energy related wastes and effluents, including participation in pilot scale and in situ coal gasification studies. She was responsible for sample collection, preparation, preservation, storage, and analysis and the reduction and management of data. She had extensive experience with gas and high pressure liquid chromatography, mass spectra interpretation, column and thin layer chromatography and atomic absorption spectroscopy.

As a student, Ms. Hartwell was the Teaching Assistant for introductory chemistry labs.

ASSOCIATIONS

Ms. Hartwell is a member of the American Chemical Society.

PUBLICATIONS

Lateralization of Zinc in Rat Brain and Its Relationship to a Spartial Behavior, James J. Valdes, Sara W. Hartwell, Sheryl M. Sato, and John M. Frazier. Pharmacology, Biochemistry and Behavior, Volume 16, pp 915-917, 1982.

The Analysis of 5-Azacytidine (5AC) and 5,6-Dihydro-5-Azacytidine (H5AC) in L1210 Cell Culture Samples by Gas Chromatography (GC) and Mass Spectrometry (MS), C.J. Nielson, S.W. Hartwell, J.V. Evans, and S.K. Daley, presented at the American Society for Pharmacology and Experimental Therapeutics, Portland, Oregon, (August 19-24, 1979).

Characterization of the Components of Energy-Related Wastes and Effluents, E.D. Pellizzari, J.T. Bursey, D.J. Smith, N.P. Castillo, and S.L. Willis, presented at the 26th Annual Conference - Mass Spectrometry and Allied Topics, St. Louis, Missouri, (May 29 - June 2, 1978).

Identification of Organic Constituents in Aqueous Effluents from Energy-Related Processes, E.D. Pellizzari, N.P. Castillo, S. Willis, D. Smith, and J.T. Bursey, presented at the 175th ACS National Meeting, Anaheim, California, (March 12-17, 1978).

Verified for Accuracy by: Sara Willis Hartwell Date: Nov 18 1986

SAIC

Synthetic Fuels Production: Analysis of Process By-products from a Laboratory Scale Gasifier, C.M. Sparacino, R.A. Zweidinger, S. Willis, and D. Minnick, for presentation at EPA contractor's meeting, Atlanta, Georgia, (February 13-15, 1978).

Analytical Techniques and Analysis of Coal Tars, Waters and Gases, C.M. Sparacino, R.A. Zweidinger, and S. Willis, presented at EPA contractor's meeting, Hollywood, Florida, (September 12-16, 1977).

Application of Capillary GC/MS-Computer Techniques to Identification of Organic Components in Environmental Samples, E. Pellizzari, R. Berkley, J. Bunch, J. Bersey, D. Smith, R. Williams, and S. Willis, presented at American Society for Mass Spectrometry Convention, (May 29 - June 3, 1977).

The Metabolism and Toxicity of Halogenated Carbanilides: Biotransformation Products of 3,4,4'-Trichlorocarbanilide, C.G. Birch, R.A. Hiles, T.H. Eichold, A.R. Jeffcoat, R.W. Handy, J.M. Hill, S.L. Willis, T.R. Hess, and M.E. Wall, Drug Metabolism and Disposition, June, 1977.

The Metabolism and Toxicity of Halogenated Carbanilides, Biliary Metabolites of 3,4,4'-Trichlorocarbanilide and Trifluoromethyl-4,4'-Dichlorocarbanilide in the Rat, A. Robert Jeffcoat, Robert W. Handy, Mark T. Francis, Sara Willis, Monroe E. Wall, C. Grant Birch and Richard A. Hiles. Drug Metabolism and Disposition, Volume 5, Number 2.

Verified for Accuracy by: Sara Willis Hartwell Date: Nov 18 1986

SAIC

JOHN J. KING

EDUCATION

Rutgers University, Newark College of Arts and Science, Newark New Jersey,
B.A. Geology, Cum Laude (1982)
M.S. Geology, Pending Thesis Defense

SUMMARY

Mr. King is a Geologist in SAIC's Environmental Technology Group. He is currently pursuing a Masters of Science Degree in Geology. Mr. King's thesis topic is concerned with the petrogenesis of simple pegmatites of the New Jersey Highlands.

EXPERIENCE

Mr. King is currently involved in a number of contractual work assignments with various government agencies. Under a contractual agreement to provide the USEPA's office of Water Enforcement and Permits support services on an as needed basis, Mr. King is taking an active role in the formulation of model minor permits for selected industrial categories. The model permits will become the basis for the development of individual permits for similar facilities or serve as a basis for general permits for specific industrial categories.

Under another contractual arrangement with USEPA, Mr. King is accessing State and Regional Files in an attempt to form a data base on industries which generate, treat, store and dispose of hazardous waste materials. The data base will serve as a basis for effluent guideline development for this industrial group.

Mr. King has played an active role in the performance of diagnostic inspections of Publicly Owned Treatment Works (POTWs) as a support service for USEPA's Enforcement Division. As part of an inspection, he is required to evaluate the operation of unit processes, access the adequacy of equipment, determine causes for chronic permit violations, and propose appropriate remedial measures.

Mr. King currently manages a number of environmental assessment and ECRA projects. Responsibilities include, ECRA applicability determination, completion of ECRA #1 and #2 Initial Notice Forms, Sampling and Cleanup Plan preparation, coordination of sampling and cleanup activities, and Cleanup Report preparation.

In response to a contractual assignment granted by NJDEP, Mr. King has prepared NPDES permits for Municipal Wastewater Treatment facilities throughout the state. Prerequisite activities conducted prior to permit development

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John J. King Date 8-13-86

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included an initial data gathering phase consisting of an on-site meeting with appropriate POTW administrative personnel.

Mr. King has been instrumental in the development of NPDES permits and accompanying engineering reports for an assortment of major industrial dischargers in the State of New Jersey.

Mr. King has participated in a number of groundwater monitoring inspections at land treatment, storage, and disposal (TSD) facilities in the State of Florida. As part of this work assignment, reports were prepared for the Florida DER and EPA Region IV describing the current level of compliance and adequacy of the groundwater monitoring programs.

In the past year, Mr. King provided technical support during the preliminary phases of a remedial investigation and feasibility study on a contaminated aquifer in Rockaway, New Jersey. Duties included the sampling and analysis of water from existing wells, and of water and sediments from local water bodies.

Mr. King worked as a research and teaching assistant at the Newark College of Arts and Science during his graduate studies. As a research assistant, he was required to sample, map, and analyze soils in the Talc districts of Southwestern Montana in an attempt to test the feasibility of a new prospecting method applicable for the exploration of mineable Talc bodies. As a teaching assistant, Mr. King maintained a supervisory position and was responsible for training the other teaching assistants in proper administration of introductory geology laboratory classes.

AWARDS

Granted H.P. Woodward Award for Outstanding Academic Achievement in the Geologic Sciences (1982)

AFFILIATIONS

Geological Society of America

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John J. King

Date 8-13-86

SAIC

PHILIP A. SPOONER

EDUCATION

Virginia Polytechnic Institute and State University: BS, Agronomy, Soils Option (1977)

EXPERIENCE

Mr. Spooner is a Senior Soil Scientist with SAIC's Technical Services Division. He has over eight years experience in evaluating the environmental aspects of land and soil used for waste disposal, with particular emphasis on hazardous waste site investigation for remedial planning. Currently, Mr. Spooner is managing a Remedial Investigation/Feasibility Study for two adjacent hazardous waste disposal sites in northwestern Illinois. This project, for a private client, is one of the first in the nation to be performed under the 1984 amendments to RCRA rather than under CERCLA. He is also managing the IRP Phase II, Stage 2 investigation at Hancock Field, New York for the U.S. Air Force. Both of these projects involve detailed assessments of complicated contamination problems and recommendations for their remediation.

Earlier, Mr. Spooner managed the IRP Phase II investigation at Homestead Air Force Base, Florida and was in charge of a site characterization effort at Kelly, AFB, Texas, for a demonstration project involving biologic reclamation of contaminated groundwater.

Mr. Spooner has developed a technical handbook on Slurry Trench Construction for Pollutant Migration Control, recently published as the first of the EPA Superfund series documents (EPA-540/2-84-001). He has also completed a study on the compatibility of grouts with hazardous wastes, for EPA (EPA-600/2-84-015). In addition to project manager, Mr. Spooner was a principal investigator and author for these tasks.

Mr. Spooner has been involved in numerous waste site investigations, from preliminary assessments to detailed hydrogeologic studies. He participated in the planning and initial field work for the long-term monitoring at the Lipari Superfund site in Glochester Co., NJ. He participated in a field investigation of nine disposal sites at the Naval Air Development Center in Warminster, PA, which involved the installation of over twenty groundwater monitoring and observation wells. Mr. Spooner has also managed an EPA Region III groundwater enforcement case at a Superfund site in Nitro, West Virginia. This work involved the installation of nine new monitoring wells and sampling of contaminated groundwater. Mr. Spooner was responsible for planning all phases of this investigation from monitoring network design and sampling plan preparation, to the disposal of contaminated drilling wastes. He also oversaw preparation of the final report and provided expert witness testimony on behalf of EPA and

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the U.S. Justice Department. This work resulted in a complex consent decree for site clean-up and remediation.

Mr. Spooner also participated in an extensive groundwater monitoring project at Love Canal in Niagara Falls, NY. During this project, he served as Chief Soil Scientist for SAIC and was one of several geologic supervisors overseeing the installation of groundwater monitoring wells.

Earlier, Mr. Spooner worked on a technical handbook entitled, "Remedial Actions for Waste Disposal Sites." This manual, (EPA-625/6-82-006), deals with the various measures that can be taken to slow or halt pollution from wastes in a disposal site, and involves studying the techniques and costs of these measures. Mr. Spooner also worked on the update of this manual (EPA/625/6-85/006), and a training manual and seminars on the hazardous waste site investigation process. This work involved all site investigation procedures from site discovery through investigation, sampling and remedial planning.

Mr. Spooner also helped to develop, field test, and refine a methodology for rating the hazard potential of waste disposal sites. This methodology was tested on over thirty sites in EPA Region II, and was distributed to all EPA Regions for their initial site ranking needs.

PUBLICATIONS

Spooner, P., Stabilization/Solidification Alternatives for Remedial Action. Paper presented at the 6th National Conference on Management of Uncontrolled Hazardous Waste Sites. Nov. 4, 1985. Washington, D.C.

Kosim, Z., Ellis, W., Spooner, P., Wagner, K., Levin, J., and Hahn, W., On-Site Treatment of Contaminated Soils and Groundwater. Seminar presented at the 6th National Conference on Management of Uncontrolled Hazardous Waste Sites. Nov. 4, 1985. Washington, D.C.

Spooner, P., et al, Slurry Trench Construction for Pollution Migration Control, (EPA-540/2-84-00). For U.S. EPA, Office of Research and Development. 1984.

Spooner, P., Hunt, G., Hodge V. and Wagner, P., Compatibility of Grouts with Hazardous Wastes (EPA-600/2-84-015). For U.S. EPA, Office of Research and Development. 1984.

Spooner, P., Wetzel, R. and Grube, W. Slurry Trench Construction of Pollution Migration Cut-Off Walls. Paper presented at the 9th Annual EPA Hazardous Waste Research Symposium. May 3, 1983, Cincinnati, Ohio.

Spooner, P. Wetzel, R. and Grube, W. Pollution Migration Cut-Off using Slurry Trench Construction. Paper presented at the 3rd National Conference on Management of Uncontrolled Hazardous Waste Sites. Nov. 30, 1982, Washington, D.C.

Verified for accuracy by: Philip A. Spooner Date: 8/29/86

SAIC

Paige, S., Harrison, E., Hunt, G., Wagner, K., Rogoshewski, P. and Spooner, P., Techniques for Evaluation Environmental Processes Associated with Land Disposal of Specific Hazardous Materials. For U.S. EPA, Office of Solid Waste. 1982.

Spooner, P., and Kufs, C. DOW #40, Case 4; Groundwater Contamination Study; Nitro, West Virginia. For U.S. EPA Office of Water Enforcement and Region III Enforcement Division. 1981.

Rogoshewski, P., Bryson, H., Lee, P., Wagner, K. and Spooner, P., Manual for Remedial Actions at Waste Disposal Sites (EPA-625/6-82-006). For U.S. EPA, Office of Research and Development. 1980. Published by EPA June, 1982. (Updated October 1985.)

Kufs, C., Spooner, P., Wetzel, R. and Caldwell, S. Methodology for Rating the Hazard Potential of Waste Disposal Sites. For U.S. EPA Region II, and Office of Research and Development. 1980.

Shocket, A., Wagner, K., Spooner, P. and Burgher, B. Level I Materials Balance: Achylamide. For U.S. EPA Office of Toxic Substances. 1979.

PROFESSIONAL AFFILIATIONS AND CERTIFICATIONS

Virginia Association of Professional Soil Scientists
 Pedologist - 1982

Verified for accuracy by: Philip A. Spooner Date: 8/25/88

SAIC

FREDERIC A. ZAFRAN

EDUCATION

Drexel University, M.S., Environmental Science (1979)
Michigan State University, B.S., Zoology (1973)
University of Pennsylvania, Limnology (1978)
Temple University, Biochemistry and Physiology (1973)

SUMMARY

Mr. Zafran is a Senior Environmental Scientist and Project Manager with expertise in the assessment of impacts of toxic substances and hazardous waste on environmental and biological systems. He is experienced in conducting exposure, hazard and risk assessments of contaminants released to all environmental media, evaluating impacts to both human and nonhuman receptors. Mr. Zafran's experience includes the assessment (fate and effects) of nonconventional, conventional and priority toxic pollutants (CWA Section 307a.1 compounds); drinking water additives; pesticides; industrial solvents; synfuels and synfuel products; dredge and fill materials; sewage sludge; coal ash; and complex hazardous wastes. Mr. Zafran's background encompasses work in environmental chemistry, ecology, and toxicology, as well as water quality planning and management.

EXPERIENCE

Mr. Zafran is currently managing a number of Work Assignments on the Mission Support Contract for EPA Region V. On Delivery Order (DO) No. 036 (Development and Implementation of Methods for Identifying Priority Groundwater Areas), Mr. Zafran and a staff of seven scientists are developing an approach for spatially delineating areas for ground-water resource management and protection. These methods will be field tested by SAIC in two pilot areas in EPA Region V. Mr. Zafran is also responsible for the preparation of Remedial Action Plans (DO Nos. 031 and 032) for Deer Lake and Torch Lake in Michigan. In these assessments, SAIC is evaluating environmental conditions in the river and lake systems, and developing a systematic and comprehensive approach to restoring beneficial uses.

Mr. Zafran has been extensively involved in public health and environmental assessment of hazardous waste sites. He is presently contributing to the Feasibility Study for the Stringfellow Hazardous Waste Disposal Site and is responsible for the public health risk assessment and environmental evaluation of remedial action alternatives. Mr. Zafran was SAIC/ETG Project Manager on a contract for the Department of Energy to evaluate the extent of waste site contamination at the Savannah River Plant in Aiken, South Carolina, and to identify and select remedial action alternatives. He was

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Frederic A. Zafran ____________________ Date: 9/25/86

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responsible for the following assessments: (1) selection of indicator contaminants for 26 waste sites; (2) development and application of methods for characterizing long-term risks to human health for nonradioactive contaminants; (3) methods development for public health risk assessment (acute toxicity) of transportation and waste-site closure accidents; and (4) review of transport models for ecosystem impact assessment. Mr. Zafran recently completed an assessment of potential long- and short-term risks to human health of release of chemicals from the proposed EPA Full Containment Hazardous Waste Research Facility in Cincinnati, Ohio.

For the EPA Office of Policy Analysis, Mr. Zafran contributed to a study on the comparative risks to human health of sources of ground-water contamination. He refined the approach to comparative risk analysis and characterized the release, transport, and transformation of indicator compounds from selected sources.

Mr. Zafran was involved in a Phase II Installation Restoration Program assessment of past waste management activities at McEntire Air National Guard Base. He evaluated the results of onsite ground-water monitoring, examining the potential for offsite migration of contaminants and assessing associated risks to human health.

Mr. Zafran has assisted the EPA Office of Solid Waste (OSW) in reviewing applications submitted by industry for RCRA Part B permits. In addition, he has reviewed numerous delisting petitions for exclusion of waste generated at specific facilities, from listing under RCRA as hazardous waste. Also for OSW, Mr. Zafran assisted in evaluating the Vertical Horizontal Spread (VHS) ground-water transport model proposed by EPA for use in predicting levels of contaminants at receptor wells. In addition to evaluating the appropriateness of the model for its intended use, Mr. Zafran developed a method for estimating concentration of organic compounds in leachate from land farmed waste, or waste disposed in landfills. The approach involved predicting the equilibrium partitioning of contaminants between aqueous and solid phases of soil-water systems.

For the Chemical Manufacturers Association, Mr. Zafran recently prepared an overview of methods for characterizing risks to public health of long-term, low-level release of chemicals from industrial facilities. For ARCO Chemical Company, he reviewed and sysnthesized information on mammalian toxicology and human healths effects of exposure to stoddards solvents.

Mr. Zafran was technical reviewer of the EPA report "Health Assessment Document for Nickel." Prepared by the Office of Research and Development. The report serves as a source document for agency-wide use.

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Frederic A. Zafran Date: 9/25/86

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Mr. Zafran has provided support to the EPA Office of Drinking Water in the development of National Primary Drinking Water Standards. He has: (1) conducted a study of chemical leaching tests to determine the extent of release of pollutants from surface in contact with potable water; (2) evaluated the potential for ground-water contamination by pesticides; and (3) assessed the environmental transport and transformation of synthetic organic chemicals and their occurrence in air, water, soil, and food.

Mr. Zafran was involved in the development of a water quality management plan for the Grand Calumet River/Indiana Harbor Canal. He conducted a critical evaluation of the State's water quality criteria and standard program, developed a method for evaluating the existing sediment contamination problem, and used this method to identify and rank sediment contaminants of concern to aquatic life and human health.

As Work Assignment Manager on the Water Quality Based Program Contract for the EPA Office of Water Regulations and Standards, Mr. Zafran was responsible for: (1) developing hazard assessments (aquatic ecological effects and mammalian/ human health effects) for 20 nonpriority pollutants found to be incompatible with the workings of POTWs; and (2) preparing a background and review document on methods for the derivation of sediment criteria and their application under CWA, MPRSA, RCRA, and CERCLA. Mr. Zafran was also technical contributor to an Environmental Impact Statement on the disposal of coal ash in the waters of the New York Bight. He evaluated the toxic impact to marine species associated with direct exposure to waste ash or contaminants released therefrom, and the potential for effects on human health and welfare.

Mr. Zafran conducted a study of the impact of coal liquefaction and shale oil products on aquatic systems. This work for the Office of Toxic Substances involved the assessment of the toxicity of compounds characteristic of synfuels that are responsible for major environmental effects: polycyclic aromatic hydrocarbons, polynuclear heterocyclic aromatic bases, water soluble aliphatic and aromatic hydrocarbons, and trace metals.

Mr. Zafran contributed to the development of a field guide for EPA and the Coast Guard, on responding to the spill of sinking chemicals in aquatic systems. On the effort, Mr. Zafran outlined an approach to the following evaluations: (1) characterization of discharged materials and the environmental setting; (2) determination of the extent of contaminant transport; (3) evaluation of environmental impacts; (4) assessment of the need for response; and (5) establishment of response objectives.

For the Office of Analysis and Evaluation, Mr. Zafran conducted a study of environmental quality problems of the Narrangansett Bay estuary. This included the physical/chemical characterization of the estuarine system, and examination of uses of the Bay and an evaluation of water quality problems, wetland loss, and shoreline

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Frederic A. Zafran Date: 9/25/86

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erosion. Also for this office, Mr. Zafran assisted in developing a five-year estuarine quality and protection program plan. He identified and evaluated research needs in the following six topical areas: estuarine characterization, site-specific criteria development, use attainability analyses, wasteload allocation techniques, monitoring, and benefit-cost assessment.

Mr. Zafran conducted a review of the available scientific literature on physical transport processes of the Alaskan Outer Continental Shelf to determine adequacy of data for ocean discharge criteria evaluation. This work assisted EPA in the NPDES permitting process for oil and gas exploration, development, and production activities.

Mr. Zafran was Work Assignment Manager on a project for the EPA Office of Federal Activities to assess the extent to which the 404 Program (Dredge or Fill Program) addresses and supports research essential to the protection of sensitive aquatic resources. Analysis of existing research and future needs facilitated the development of a broad-based program plan for 404-related research activities.

Mr. Zafran conducted a preliminary study of the impacts of incineration of sewage sludge on human health and the environment. Specifically, he provided the EPA Sludge Task Force with an assessment of contaminants likely to be emitted to the atmosphere, a quantification of emissions factors, and an identification of pollutants of major concern. For the Office of Technology Assessment, Mr. Zafran prepared a comparative overview of ocean disposal of sewage sludge and disposal in terrestrial environments.

Mr. Zafran was extensively involved in the development of regulatory support documents for Toxic Substances Conrol Act Section 4, priority chemicals (Office of Pesticides and Toxic Substances). He was responsible for the analysis of information on pollutant emission, environmental transport, and transformation as it relates to occupational and general population exposures. Also for OPTS, Mr. Zafran has prepared numerous Chemical Hazard Information Profiles, providing background health and exposure data in support of risk assessment and test rules development processes.

PREVIOUS EXPERIENCE

Prior to working for SAIC, Mr. Zafran was employed by the Krusen Center for Biomedical Research and Engineering, and was involved in the study of neuromuscular function in human locomotion. While in graduate school, Mr. Zafran worked as consultant (health systems planner) to the Pennsylvania Department of Health, representing the Drexel University Environmental Studies Institute.

PROFESSIONAL AFFILIATION

Society of Environmental Toxicology and Chemistry

Verified for accuracy by:

Frederic A. Zafran Date: 9/25/86

SAIC

NANDKISHORE KAUSHIK

EDUCATION

University of Maryland, M.S., Environmental Engineering (1984)
Indian Institute of Technology, B.S., Chemical Engineering (1982)

BACKGROUND SUMMARY

Mr. Kaushik is a Chemical/Environmental Engineer with over three years experience in toxic/hazardous wastes management including remedial investigations/feasibility studies (RI/FS); RCRA compliance; remedial action planning, design and implementation; solid waste disposal and management; and environmental assessments and impact statements. He is experienced in the design of water and wastewater facilities including sludge handling and management; industrial wastes characterization and treatment processes; process design and development; and water reclamation, recycle and reuse.

EXPERIENCE

Mr. Kaushik is an environmental engineer with SAIC's Engineering Services Section. Currently he is involved in the implementation of Air Force IRP (Installation Restoration Program) studies to determine the degree of environmental degradation and remedial measures required at a number of Air Force Bases throughout the country. Mr. Kaushik's responsibilities include: evaluation of site investigation analyses including groundwater, surface water and soil/sediment sampling data; assessment of the nature and extent of the contamination problem; risk assessment and development of a preliminary baseline public health evaluation; preliminary screening, evaluation and final selection of appropriate remedial action measures; preparation of final reports; and design of the selected remedial actions (if required).

Prior to joining SAIC, Mr. Kaushik was an environmental engineer with an A/E firm in Northern Virginia. With this firm, Mr. Kaushik was the principal investigator for a variety of engineering studies and design projects from conceptual studies to plans and specifications. His responsibilities included project management with budget control and scheduling, coordination with other disciplines within and outside the firm, proposal preparation and client interaction.

Mr. Kaushik led a technical role in the preparation of Remedial Investigation Plans and Preliminary Engineering Design for construction of two hazardous material storage buildings; for hazardous air emissions control at a nitration facility; and to rectify two leaking hazardous waste storage lagoons. Work involved review and assessment of groundwater monitoring data, development and identification of remedial technologies, evaluation of Part B permit application, assessment of compliance with all RCRA, OSHA and NPDES regulations and local fire ordinances, preparation of conceptual and process design and development of cost estimates for remedial alternatives.

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Mr. Kaushik was a project leader in the technical evaluation of RI/FS Work Plans for two Superfund sites. Among the documents reviewed were work plans, engineering studies and technical reports; clean-up technologies and treatment methods; engineering plans of corrective action measures. Recommendations were made subsequently to determine potential liability of responsible parties.

For the U.S. EPA in Denver, Mr. Kaushik implemented and conducted environmental audits at potable water facilities (over 300 in number) in the State of Wyoming. He inspected the various sites, sampled and tested the water and prepared improvement recommendations report.

Mr. Kaushik has conducted Potentially Responsible Party (PRP) searches in support of EPA's hazardous wastes management program. He was involved in the Solid Waste Management project for Montgomery County, Maryland in which feasible alternatives for disposal of the County's solid wastes were evaluated and ranked. Alternatives that were considered included mass burn, resource recovery facility and extension of existing landfilling operation.

Mr. Kaushik is experienced in the preparation of construction contract documents including detailed plans and specifications, cost estimates and process design computations; and providing construction period services such as shop drawing review and site visits during construction. He has been involved in the design of a variety of projects on wastewater treatment and sludge handling facilities e.g., the installation of dissolved air flotation (DAF) units, decant tanks and upgrading of waste activated sludge pumping station at Western Branch WTP, Maryland. The design work also included: Bench-scale treatment process evaluation; permmitting and regulatory assistance; start-up and training services; preparation of operation and maintenance manuals; and waste recycle and reuse evaluation.

Mr. Kaushik was a research assistant with the Civil Engineering Department at the University of Maryland from September 1982 through May 1984. In this capacity, he researched physical and chemical methods of zinc removal through precipitation and electrochemical techniques which later became part of his thesis work for the Master degree program. He also taught an undergraduate laboratory course where the work included counseling, assessment and supervision of student performance in course work.

PROFESSIONAL AFFILIATIONS

Water Pollution Control Federation

Verified for accuracy by: Nandkishore Kaushik Date: 9/25/87

APPENDIX L: SOIL GAS SURVEY

SOIL GAS SURVEY

HANCOCK FIELD

SYRACUSE, NEW YORK

PREPARED BY

TARGET ENVIRONMENTAL SERVICES, INC.

5513 TWIN KNOLLS ROAD

COLUMBIA, MARYLAND 21045

DECEMBER 1986

Introduction

On November 13 and 14, 1986, TARGET Environmental Services, Inc. (TARGET) conducted a soil gas survey on a portion of the Air National Guard facility at Hancock Field, Syracuse, New York. The purpose of the survey was to detect and delineate subsurface hydrocarbons present at the site as a result of fire training activities utilizing JP-4 fuel.

Field Procedures

TARGET collected a total of thirty-four (34) gas samples in the execution of the survey. Of these, thirty (30) were soil gas samples collected at locations shown on Figure 1. Two (2) ambient air samples and two (2) nitrogen blanks were also collected for quality control/quality assurance purposes.

To obtain the soil gas samples, a 1/2 inch hole was produced to a depth of two (2) feet using a slide hammer. Prior to sampling, the entire sampling system was purged with an inert gas (nitrogen). A specially designed stainless steel probe was then inserted to the full depth of the hole and packed off at the surface. A sample of in-situ soil gas was withdrawn through the probe and used to purge the sampling system. A second sample of soil gas was then withdrawn through the probe and encapsulated in a pre-evacuated glass vial at 2 atmospheres of pressure. The self-sealing vial was detached from the sampling system and stored for laboratory analysis.

After each use the probe was decontaminated by washing with soapy distilled water. Distilled water was then used for rinsing away the soap residue. The probe was then dried by rinsing with

reagent grade methyl alcohol and evaporating the remaining fluid by passing nitrogen through the equipment.

Laboratory Procedures

Samples collected during the field phase of the survey were analyzed on site using a chromatograph equipped with a flame ionization detector for benzene, toluene, xylenes, and total volatile organics content. Calibration of the analytical equipment was performed on a daily basis using a curve and injection of standard gases of known concentrations. Retention times of the compounds in the standards were used to identify the unknown compounds in the samples. A standard was run after every three samples to ensure validity of the initial curve. One out of every ten samples was a blank analysis of laboratory air, and one out of every ten samples was a duplicate analysis.

Results

The results of the laboratory analyses for benzene, toluene, xylenes, and total volatiles are shown in Table 1. The 2 ppb detection limit for summed xylenes was not exceeded in any of the samples. Benzene, toluene, and total volatiles, however, occurred in detectable concentrations in samples from eleven (11) stations. These values were mapped and contoured to produce Figures 2, 3, and 4 respectively.

The benzene map, Figure 2, shows a ring of high benzene concentrations around the octagonal concrete pad of the fire training area. The product occurrence indicated by the benzene appears to be entirely within the area enclosed by the earthen berm

to the north, west, and east of the concrete pad. The 1 ppb contour shows a lobate extension of the product occurrence to the northwest from the immediate vicinity of the pad.

Also indicated by the benzene map is a minor product occurrence on the west side of Thompson Road, at stations 19 and 20. The concentrations at these locations are very low (1-2 ppb), and indicate that only low levels of fuel product are present at the points tested. Since no samples were collected to the south, west, and east, it is impossible to establish if this is truly a minor occurrence or only the margin of one more significant.

Examination of the toluene map, Figure 3, and the total volatiles map, Figure 4, reveals the same product distribution as indicated in Figure 2. Once again, the product around the fire training area is restricted to the ground encircled by the earthern berm. The highest concentrations occur as a narrow band immediately east and west of the concrete pad. At the northern margin of the pad the concentrations are lower, but the zone of occurrence extends further from the pad. In both figures the lobate extension to the northwest is again observed, as is the minor occurrence at stations 19 and 20.

Conclusions

1. Fuel product was detected at the site occurring as a halo of elevated concentrations surrounding the fire training pad. Product concentrations declined rapidly with distance from the pad, except the northwest where a lobate extension is seen.
2. Product occurrence around the fire training pad appears confined to the area encircled by the earthern berm.

3. Minor product concentrations were also observed at two stations located on the west side of Thompson Road. Because of the lack of stations surrounding these locations, it is unknown whether these two samples represent a minor occurrence, or only the margin of one more significant.

TABLE 1
LABORATORY RESULTS
SOIL GAS SAMPLES
HANCOCK FIELD
SYRACUSE, NEW YORK

Sample	Benzene	Toluene	Xylenes	Total (*)
		parts per billion		
HF1	< 1	< 1	< 2	< 1
HF2	< 1	< 1	< 2	< 1
HF4	160	72	< 2	1100
HF5	< 1	< 1	< 2	< 1
HF6	< 1	< 1	< 2	< 1
HF7	< 1	< 1	< 2	< 1
HF8	< 1	< 1	< 2	< 1
HF9	< 1	< 1	< 2	< 1
HF10	< 1	< 1	< 2	< 1
HF11	< 1	< 1	< 2	< 1
HF12	< 1	< 1	< 2	< 1
HF13	< 1	< 1	< 2	< 1
HF14	< 1	< 1	< 2	< 1
HF15	< 1	< 1	< 2	< 1
HF16	4400	1100	< 2	17000
HF17	2500	630	< 2	10000
HF18	2100	270	< 2	9400
HF19	2	2	< 2	11
HF20	1	2	< 2	5
HF21	< 1	< 1	< 2	< 1
HF22	< 1	< 1	< 2	< 1
HF23	< 1	< 1	< 2	< 1
HF24	< 1	< 1	< 2	< 1
HF25	2300	800	< 2	12000
HF26	2600	1300	< 2	15000
HF27	4	4	< 2	33
HF28	3	9	< 2	46
HF29	< 1	2	< 2	4
HF30	< 1	< 1	< 2	< 1
HF31	< 1	< 1	< 2	< 1
HF32	< 1	< 1	< 2	< 1
HF33	< 1	< 1	< 2	< 1
HF34	< 1	< 1	< 2	< 1
HF35	< 1	< 1	< 2	< 1

* Total represents an estimate based on the sum of all peaks and calculated using the response factor of benzene.

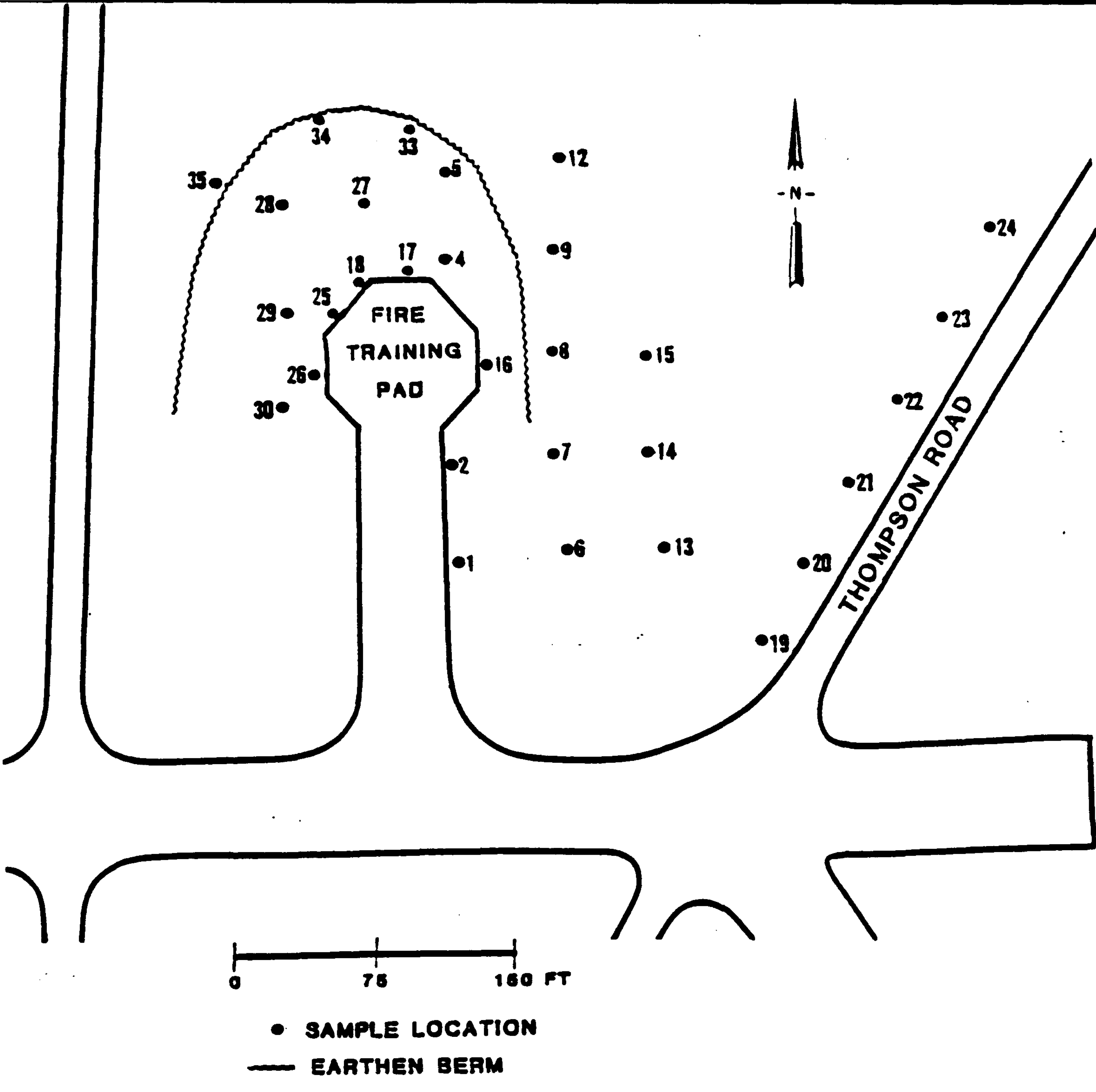

FIGURE 1. SAMPLE STATION LOCATIONS

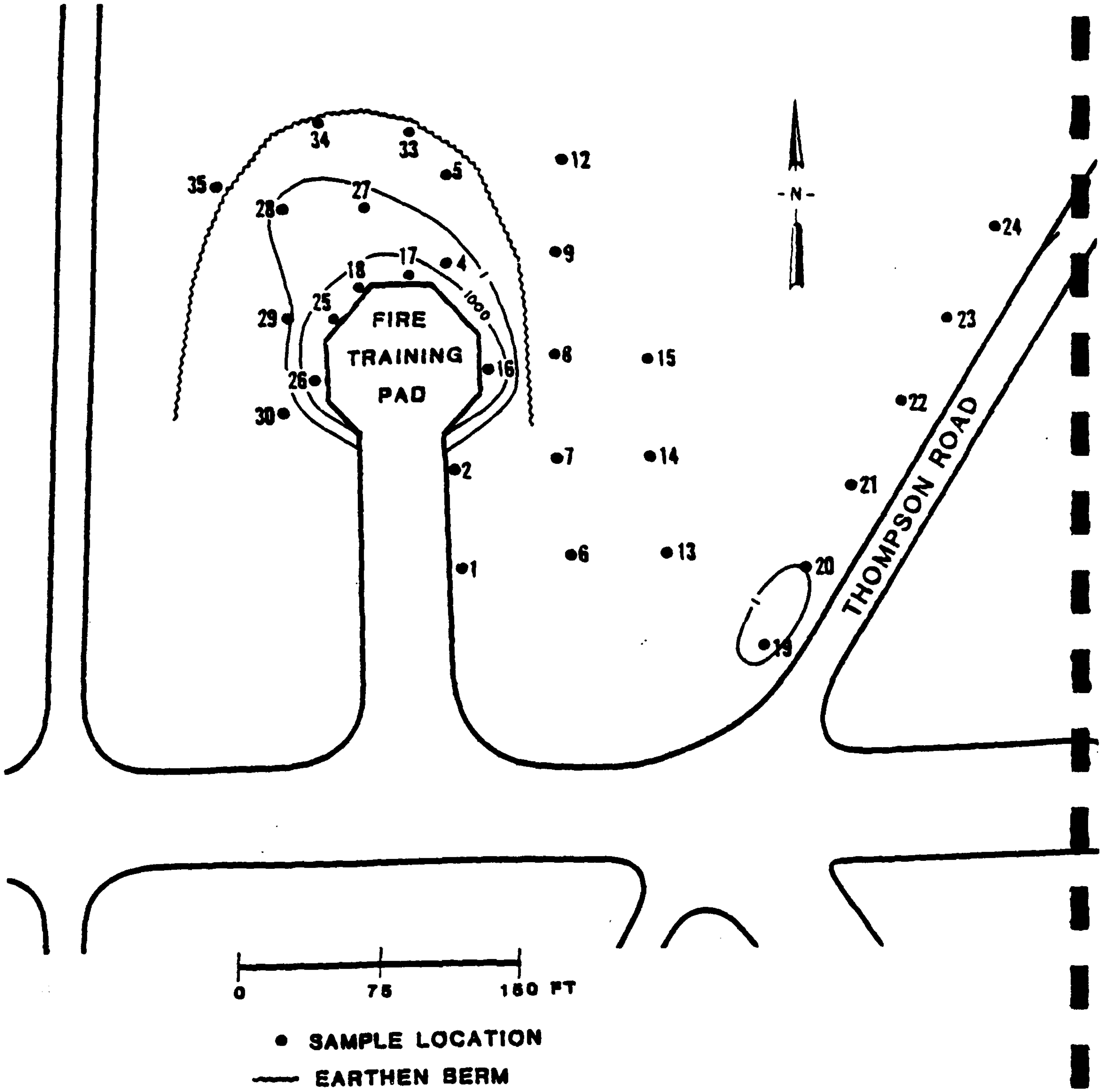

FIGURE 2. BENZENE IN PPB

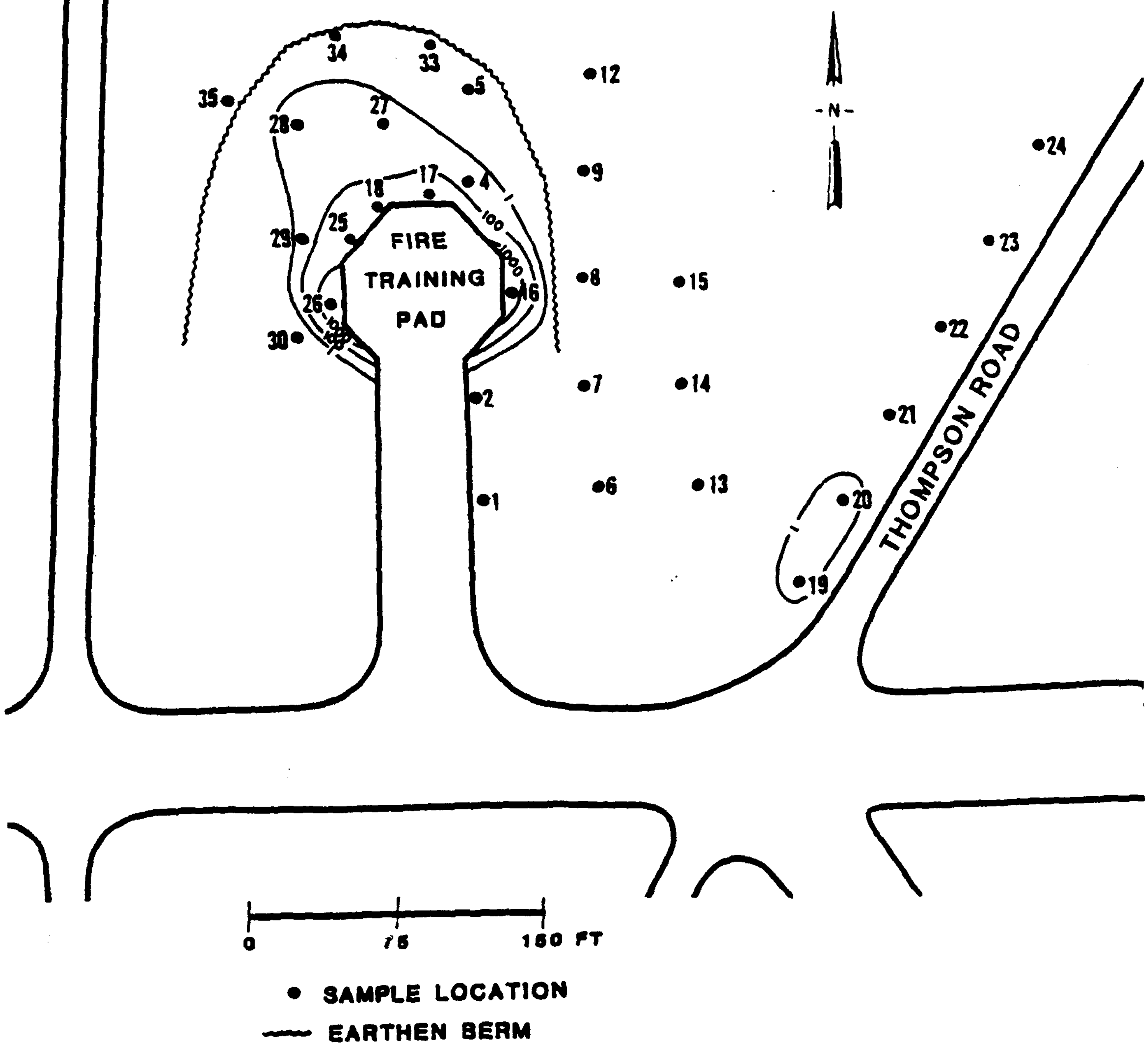

FIGURE 3. TOLUENE IN PPB

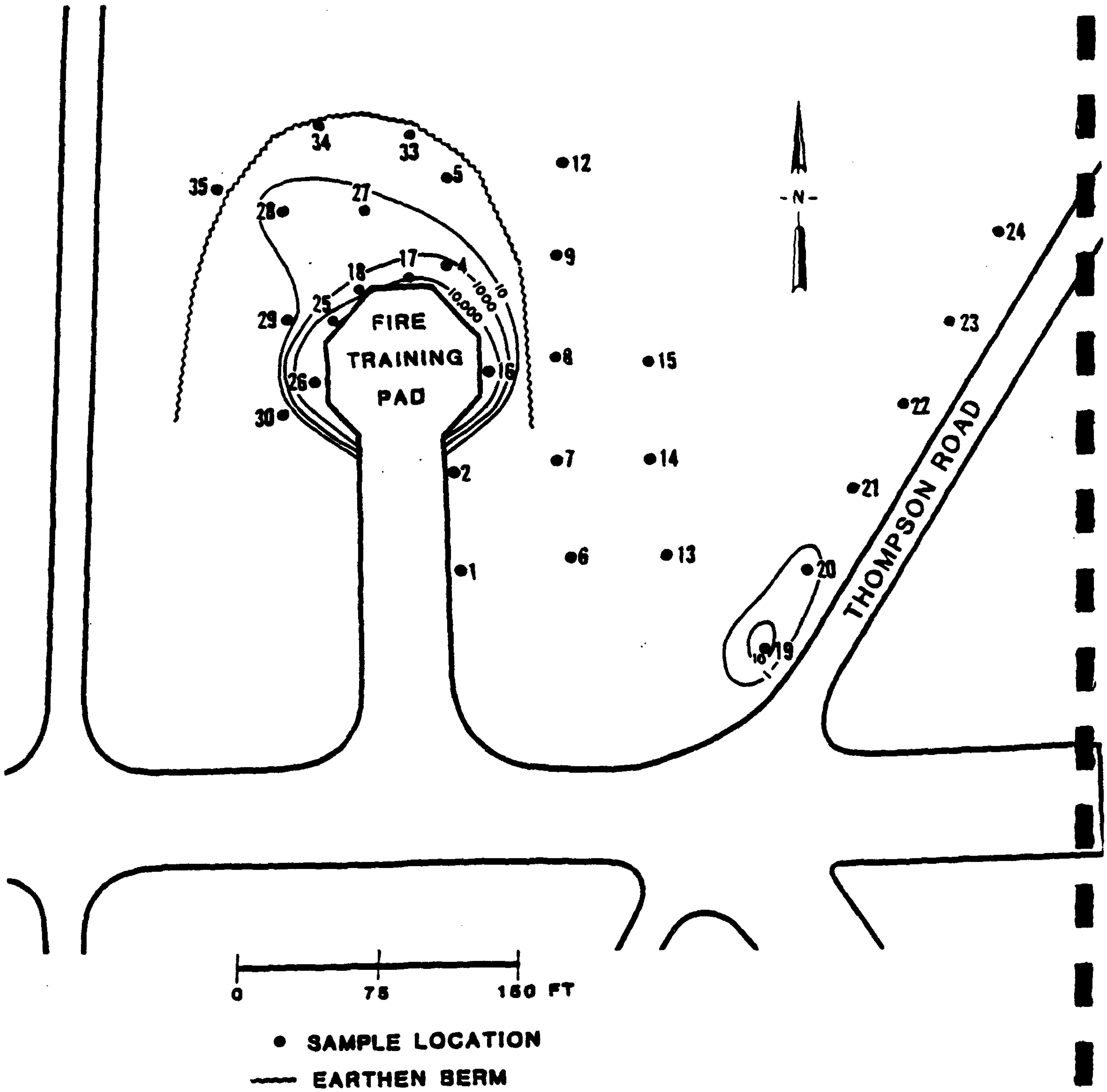

FIGURE 4. TOTAL VOLATILES IN PPB

APPENDIX M: GEOPHYSICAL SURVEY

MAGNETOMETER SURVEY

HANCOCK FIELD SITE
ONONDAGA COUNTY, NEW YORK

FOR

SCIENCE APPLICATIONS INTERNATIONAL CORP.
McLEAN, VIRGINIA

JANUARY 1987

DELTA
GEOPHYSICAL SERVICES

January 2, 1987

DELTA
GEOPHYSICAL SERVICES
A GEONICS COMPANY

Mr. Phil Spooner
Science Applications International Corporation
1710 Goodridge Drive
McLean, Virginia 22102

REPORT: Magnetometer Survey
Hancock Field Site
Onondaga County, New York

SAIC Subcontract No.:
15-870048-76

Gentlemen:

We have completed the magnetometer surveys for Disposal Sites D-1 and D-3 at Hancock Field in Onandoaga County, New York.

Initial activities included control gridding of both sites using a Brunton compass and 300-foot measuring tape. The grids were laid out using Magnetic North, not True North. Any reference to compass direction in the report implies Magnetic North unless stated otherwise. A East-West baseline was established at each site, with North-South transect lines spaced 50 feet apart. Along each transect line, wooden stakes were driven into the ground at 100-foot intervals, producing a 50-foot by 100-foot reference grid. Over this reference grid, magnetometer data were collected along each survey line at 10-foot intervals, with 25 feet between each survey line. Survey lines were oriented in a Magnetic North-South direction. The magnetometer data for both sites are given in the Appendix.

For Disposal Site D-1, a key reference stake (00 +00) was established, and is MN 131 E and 280 feet from GW-2. From this location the East-West baseline was established.

For Disposal Site D-3, a key reference stake (00 +00) was established and is MN 90 W and 100 feet from GW-6. From this location the East-West baseline was established.

PROGRAM

The magnetometer survey was made using a EG&G Proton Magnetometer G-856. The proton magnetometer measures the total intensity of the earth's magnetic field relative to known and unknown external interferences (buried ferrous material, etc.).

The proton magnetometer utilizes the precession of

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spinning protons or nuclei of the hydrogen atom to measure the intensity of the earth's magnetic field. The spinning protons act as small magnetic dipoles. When an electrical current is generated by the coil the protons temporarily align themselves to the electric current. When the current is removed, the protons spin in the direction of the earth's magnetic field or are aligned to influences caused by external interferences (ferrous material, etc.). As the protons spin they generate a small electrical signal. This signal is recorded in Gammas by the G-856.

Analysis of magnetometer data involves recognizing and characterizing local disturbances in the earth's magnetic field arising from local changes in magnetization. Ferrous material is generally the major cause of such disturbances. The disturbance (anomaly) is usually recorded as high and low magnetic values (dipole signature). Natural disturbances in the earth's magnetic field were recorded by repeated measurements at a base station at regular intervals (1/2 to 1 hour) during the surveys. Natural disturbances were relatively small, averaging approximately 15 gammas over a 8 hour period.

Manual and computer interpretation techniques allowed us to differentiate "noise" (fences, buildings, powerlines, etc.) from unknown buried ferrous material. The dipole signatures not affected by the influence of known external interferences are shown on the base map as anomalous zones. The magnitude of an anomaly is proportional to both the mass and depth of the buried ferrous material.

DESCRIPTION OF MAPS

Two maps (A and B) were made for each site. Both maps show the reference grid stake locations and distances, magnetometer survey lines, and observed surface debris. Surface debris includes concrete, re-bar, trash, bricks, and various metal objects. Due to the varying amount of snow cover during the survey, some surface metal may not have been observed. Boundaries of observed surface debris lying outside of the survey area are inferred.

Interpretative contour lines are presented on Map A of each site. These are intended as a generalized view of the magnetometer data collected at the sites. The contour interval is 1000 gammas, with contour lines labelled as (gammas x 10) + 50,000, (ie: the label 700 represents 57,000 gammas). Background values of the magnetometer data are in the range 56,400 - 56,600 gammas.

CONCLUSIONS AND RECOMMENDATIONS

Anomalous zones and suggested test pit locations are shown on Map B of each site. The data indicates that on both sites, two major categories of subsurface conditions exist: an area with fairly

continuous amounts of buried ferrous material which represents the major dumping area, and an area with more scattered amounts of ferrous material.

At each site, the data indicates that the majority of the major dumping area contains buried ferrous material, with the shaded anomalous zones indicating the largest concentrations of buried ferrous material. Areas outside of the major dumping area, and not indicated as anomalous zones, may contain small amounts of scattered buried ferrous material. Boundaries of anomalous zones lying outside of the survey area are inferred.

> On Disposal Site D-1, the northern boundary of the major dumping area is parrallel to and 60 feet south of the dirt access road, and the western boundary is located approximately along grid transect line -250 (magnetometer survey line 28). The eastern and southern boundaries extend at least to the top edge of the slope, which is the boundary of the magnetometer survey. South of the top edge of the slope along grid transect line -50 there is a ridge where surface trash was observed.
>
> On Disposal Site D-3, the northern boundary of the major dumping area is along the dirt access road, until grid location 00 - 200, at which point the northern boundary jogs to the east along baseline -200. The western, southern, and eastern boundaries extend at least to the top edge of the slope, which is the boundary of the magnetometer survey.

In areas where large amounts of surface metal are present (especially along the edge of the slopes of the disposal areas), anomalous zones are not shown due to the large amount of interference. Anomalous zones which are near or include small areas of observed surface debris indicate that there is additional buried ferrous material at these locations.

Suggested test pit locations are shown on the map. The information gathered from these test pits will best catergorize the type of buried ferrous material present and their boundaries.

Based on initial analysis of the data, test pit locations were staked out in the field to facilitate excavation of test pits in areas with obvious buried ferrous material. These locations are marked in the field by orange wooden stakes labelled with the grid location, a red flag tied to the stake, and blue flagging tied to a nearby tall object. Upon further interpretation of the data, additional suggested test pit locations were determined, and are shown on the map. (Test pit locations marked in the field are also shown on the map, and are denoted with an arrow.)

If there are any questions concerning this report, please do not hesitate to contact us. It was a pleasure to have worked with you on this project.

Very truly yours,
Delta Geophysical Services

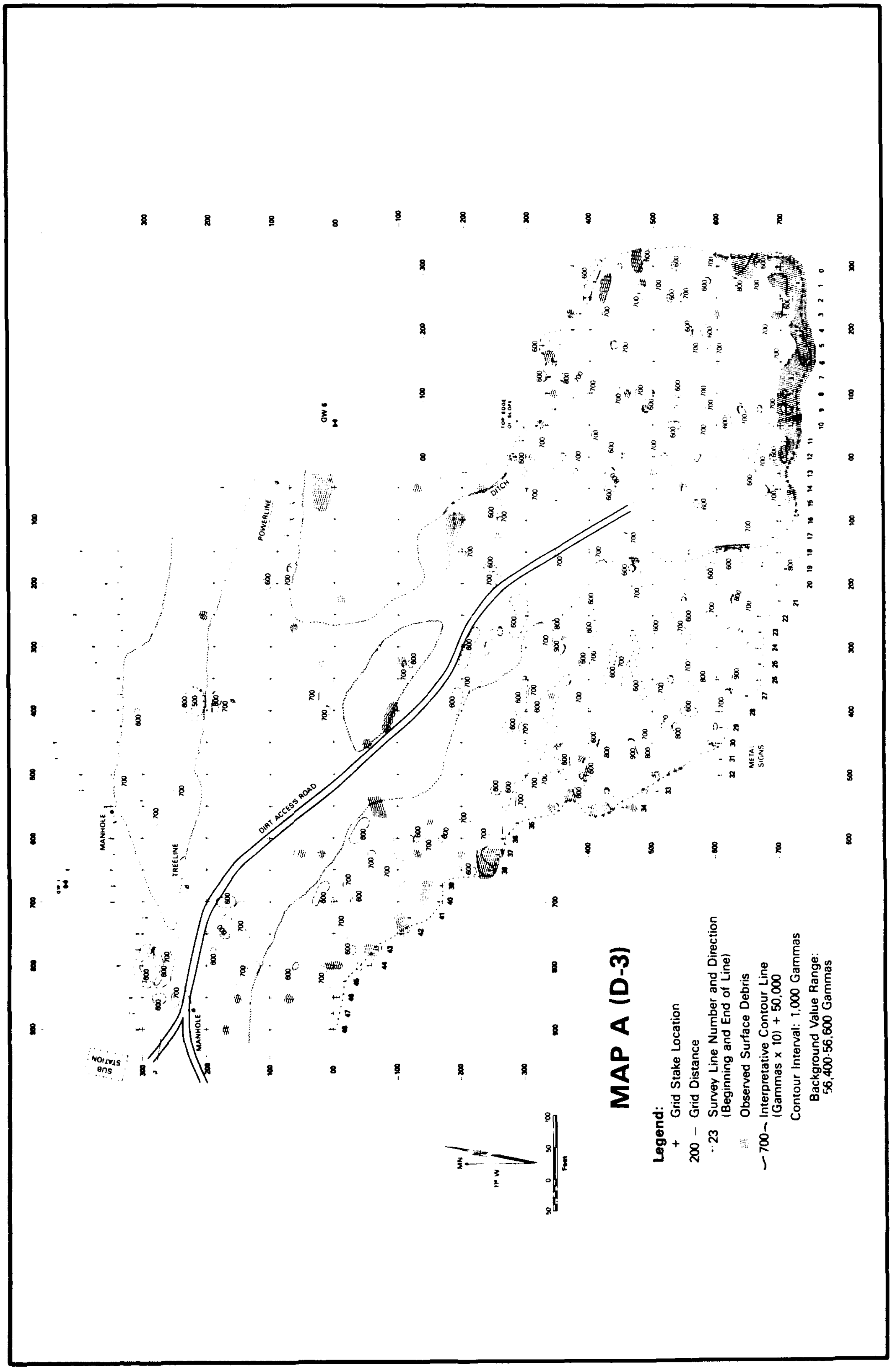
Philip H. Duoos
Geophysical Engineer

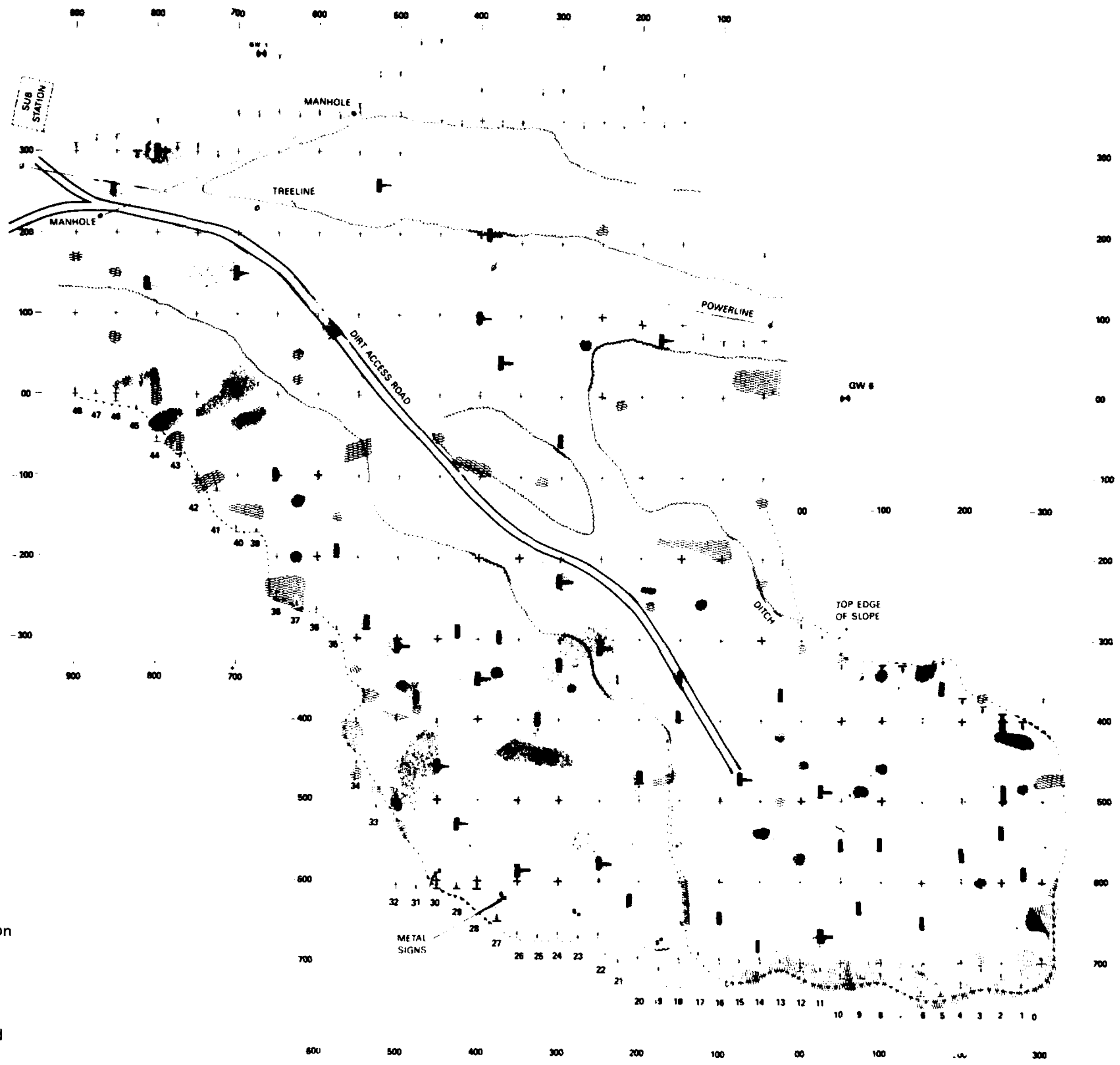
PHD:hp

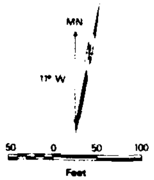
DELTA


MAP A (D-1)
Legend:
+ Grid Stake Location
200 — Grid Distance
⊣23 Survey Line Number and Direction (Beginning and End of Line)
Observed Surface Debris
700 Interpretative Contour Line (Gammas x 10) + 50,000
Contour Interval: 1,000 Gammas
Background Value Range: 56,400-56,600 Gammas
MN
11° W
50 0 50 100
Feet
WATERTOWN ROAD
DIRT ACCESS ROAD
OLD FOUNDATION
WATER
POWERLINE
DITCH
TREELINE
DRAINAGE PIPE
PATH
TOP EDGE OF SLOPE
NEW GW
GW 2
TOP OF RIDGE


MAP B (D-1)
Legend:
+ Grid Stake Location
200 – Grid Distance
⊣23 Survey Line Number and Direction (Beginning and End of Line)
Observed Surface Debris
Anomalous Zone
Suggested Test Pit Location
Denotes Location Marked in Field
SUB STATION
DITCH
POWERLINE
TREELINE
DRAINAGE PIPE
DIRT ACCESS ROAD
WATERTOWN ROAD
PATH
TOP EDGE OF SLOPE
NEW GW
GW 2
GW 3
OLD FOUNDATION
WATER
TOP OF RIDGE
MN
11° W
Feet


MAP A (D-3)
Legend:
+ Grid Stake Location
200 — Grid Distance
· 23 Survey Line Number and Direction (Beginning and End of Line)
Observed Surface Debris
~700~ Interpretative Contour Line (Gammas x 10) + 50,000
Contour Interval: 1,000 Gammas
Background Value Range: 56,400-56,600 Gammas
DIRT ACCESS ROAD
POWERLINE
TREELINE
MANHOLE
SUB STATION
DITCH
METAL SIGNS
Feet





MAP B (D-3)

Legend:

- + Grid Stake Location
- 200 — Grid Distance
- ⊣23 Survey Line Number and Direction (Beginning and End of Line)
- Observed Surface Debris
- Anomalous Zone
- Suggested Test Pit Location
- · Denotes Location Marked in Field